American Vegetable Grower

JULY • 1961

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American
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JULY, 1961

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American Vegetable Grower

Vince Kosuga and his wife, Polly, check progress of early crop being readied in greenhouse.

A New Variety SAVED HIS MARKET

New York's Vince Kosuga met the challenge of a dwindling market by adopting a variety from the West

By ROBERT W. LANGLOIS
Associate County Agent, Orange County, N.Y.

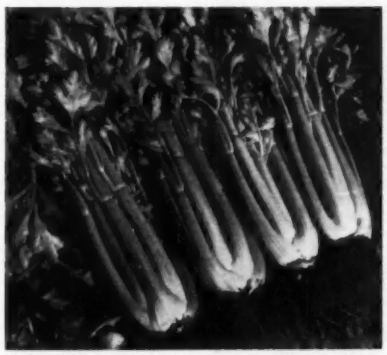
VINCE KOSUGA has been growing celery in Pine Island, N. Y., since 1929. Although his operation has increased in size each year, he thought he would have to give up celery growing in 1946. Summer Pascal, his leading variety, was no longer in demand.

What was the problem? Summer Pascal *was* the outstanding variety in New York. It was superior to Golden Plume, a popular variety in the 1930's. During the war, nobody had objected to its poor qualities—a tendency to be brittle and to sprawl.

But by 1946 this situation had changed. Buyers preferred western celery because of its firmness and shape. A new variety, Utah 10-B, was popular in the West, but many doubted that it would grow well in the East. Kosuga decided to try it.

The first acre of Utah 10-B was planted in 1947 and almost proved the skeptics right. The plants were uneven in quality, shape, and size. But some of the individual plants were superior to Summer Pascal. Kosuga selected these for seed increase and shipped them to a seedhouse.

After two years Utah 10-B looked good, and most of his acreage was planted to it. Business started to pick up again. Buyers looking for the "10-B Type" found it in the East.



Half of Kosuga's 1961 acreage will be Green Light (fall strain), newest variety he has grown.

There was only one acre of Utah 10-B grown on Vince Kosuga's farm in 1960. It, like Summer Pascal, had its faults—susceptibility to blight, *Cephalosporium*, and magnesium deficiency.

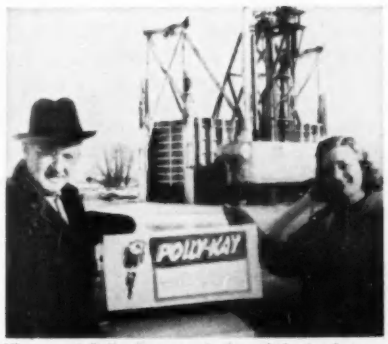
Since the introduction of Utah 10-B in 1947, several varieties have been grown, including Utah 15, Holmes Crisp, and non-bolting Green No. 12.

Kosuga has developed a formula on new varieties. He follows this program: grows enough of the new variety for one shipment; compares it with the standard; and grows two or three trials in one year and continues this practice for at least two years. Once a variety is dropped from the program, it is never grown again.

This year Kosuga's celery acreage will hit a new high—180 acres. Of this 95% will be divided equally between Utah 52-70 and Green Light.

Since 1947, that one acre for new variety testing, though frequently plowed under, stands as a monument to successful celery growing because Vince Kosuga had the foresight to try a new variety.

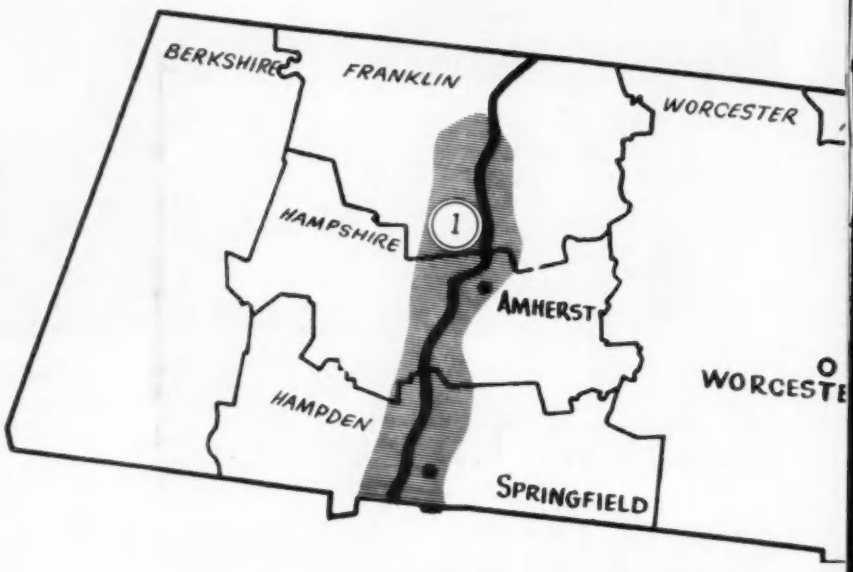
In fact, there's a lesson in this story for all growers—don't get in a rut. THE END.



Vince and Polly Kosuga display their tradename "Polly-Kay." Vacuum cooler is in background.

THE VEGETABLE AREAS OF AMERICA

Most growers in the Bay state like to grow their own plants in greenhouses and hotbeds.



Where vegetables are grown commercially in Massachusetts: 1—Connecticut River Valley. 2—Merrimac River Valley. 3—Middlesex County area. 4—Bristol County area.

By ROBERT E. YOUNG and CECIL L. THOMSON
University of Massachusetts

This is the twenty-third in a series on the important areas of the United States. Previous issues covered New Jersey, Florida, Eastern Virginia, Arizona, Mississippi, Louisiana, Long Island, Maine, South Carolina, Maryland, Wisconsin, California's Imperial-Coachella, Central, and Coastal valleys, the South Coast, San Francisco Bay, and Tulelake Basin of California, Indiana, Georgia, Minnesota, Alaska, Oklahoma, Hawaii, and Utah.

Mobile harvester in broccoli field on Veg-Acre Farms on Cape Cod; also used to harvest sweet corn.

VEGETABLE farming in Massachusetts became a way of life not long after the Pilgrims landed on our shores. Today many of the 300-year-old farms are still being cultivated by the same families. Today, too, vegetable growing continues to be a thriving business in such historic places as Lexington and Concord. Important varieties which were developed in this area include Crosby beet, Danvers carrot, Danvers Yellow Globe onion, and Hutchinson carrot.

For the most part, vegetables in the Bay state are grown for the fresh market. Market gardens originally dotted the perimeter of the large cities but urban development along with modern transportation has resulted in the shifting of many of the vegetable areas to more remote sections. With the exception of cucumbers for pickles and other vegetables for pickling and soups, canning crops are not grown in Massachusetts.

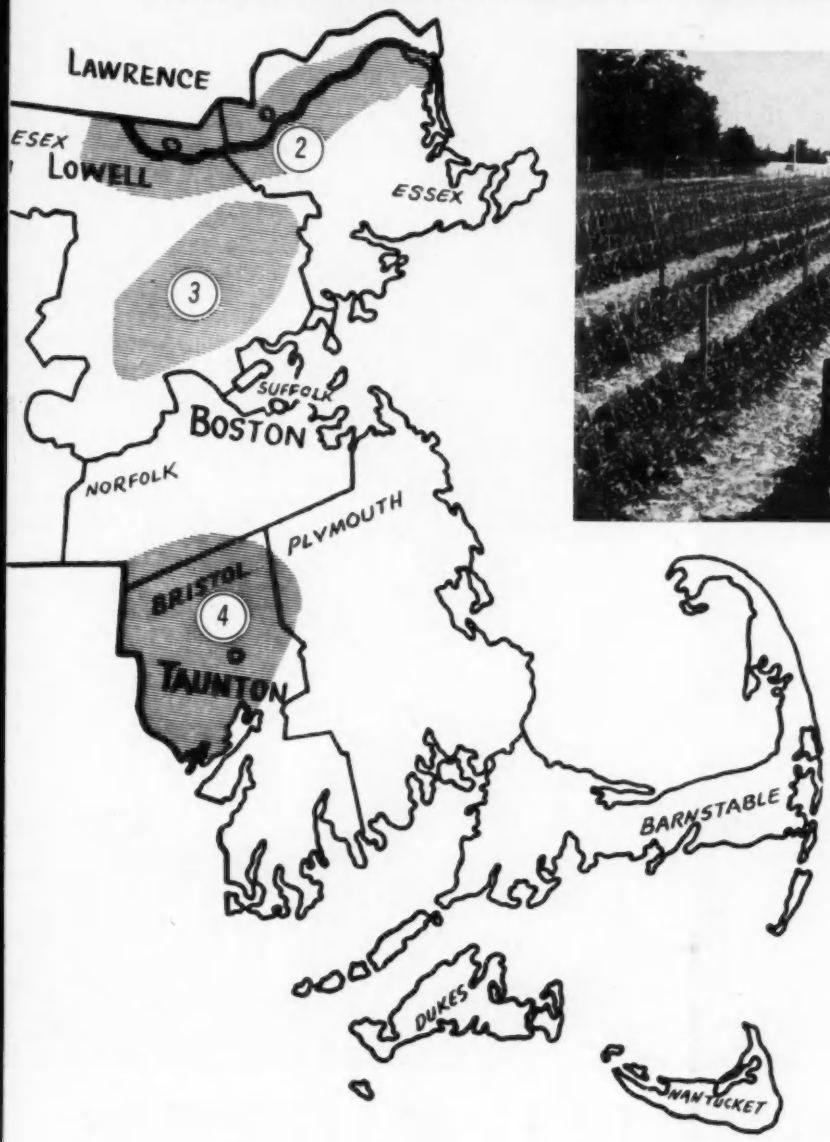
Much of the state is hilly and rolling with very few level fields and most of these are quite small. The best farmland lies in the river valleys of the Merrimac and Connecticut rivers. Here the fields are larger, level, and fertile.

The yearly survey conducted by Agricultural Marketing Service and Massachusetts Department of Agriculture shows that in 1960 the acreage devoted to vegetable production in the state totaled 27,000 acres. Middlesex County, near Boston, is the most important producing area with 7600 acres, followed by Bristol, Essex, and Hampshire counties.

Most Bay state vegetable growers cultivate their relatively small areas intensively. They grow high value per acre crops and apply large quantities of fertilizer to get top yields.

Because of the closeness to the city in many instances, much of this land has high tax valuation, and good management, efficient production, and proper diversification are essential for success. As evidence of wide diversification, the Spence brothers of Woburn, who once farmed for the wholesale market, are now growing a variety of vegetable and flower plants

MASSACHUSETTS



Tomatoes are mostly trellised. Production cost is high, so is yield—50 tons per acre.

which they sell at their roadside stand. In the fall they handle Christmas trees and greens.

Massachusetts has a large greenhouse industry which is devoted mostly to tomatoes, with small amounts of cucumbers and lettuce. These crops are sold throughout New England. The Massachusetts Greenhouse Tomato Growers Council advertises and promotes "the tomato with the stem on top" on radio and through other advertising media. Principal tomato varieties grown are Waltham Mildew Resistant Hybrid Improved, Waltham Hybrid, and Waltham Forcing.

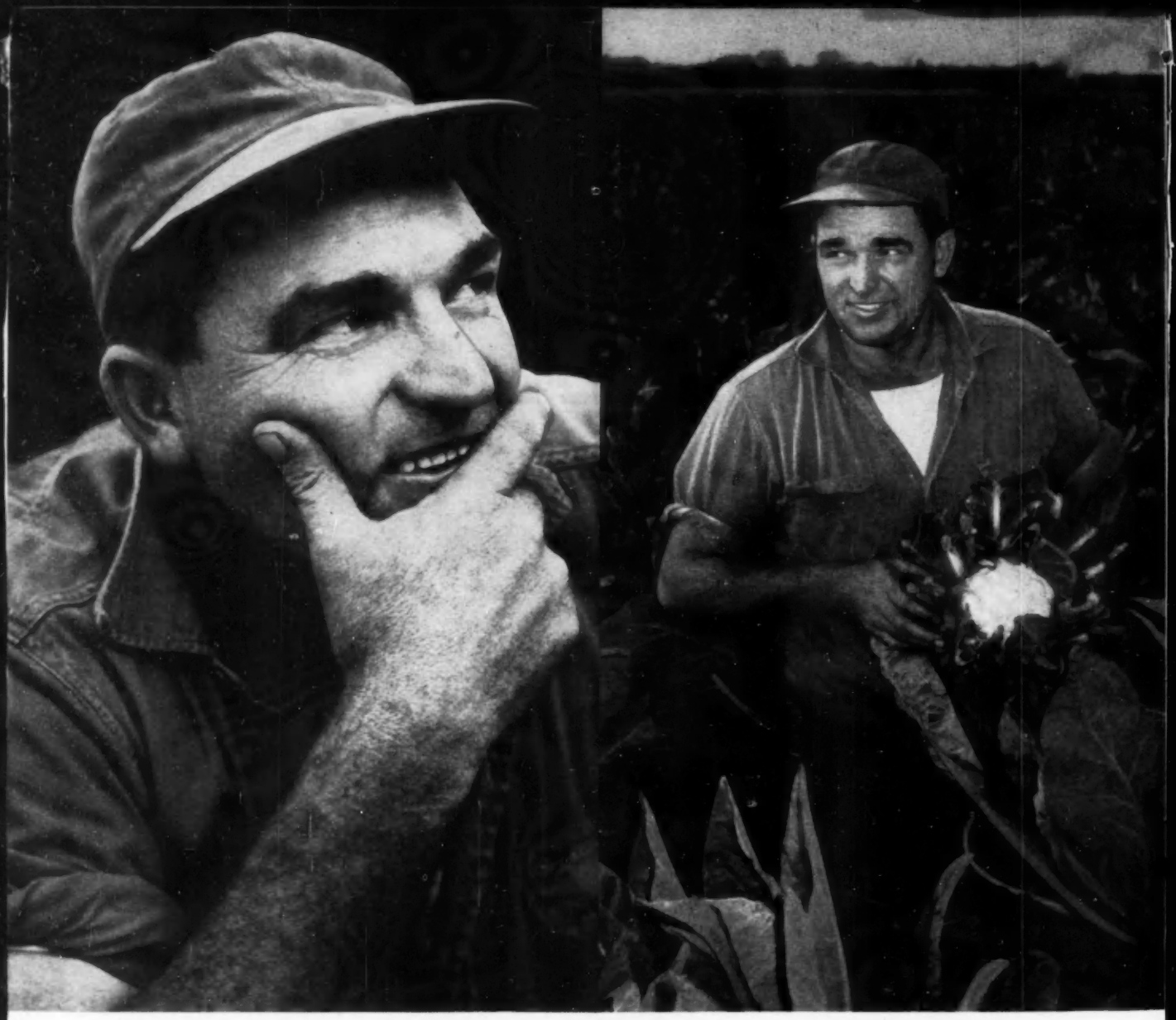
In days gone by, Boston's famous Faneuil Hall Market was the outlet for most of the vegetables. While commission agents there still handle about 35% of the produce grown locally, about 20% now goes direct to retail outlets and an additional 20% is sold at roadside markets. The remainder is sold through various other market outlets.

The typical roadside stand in Massachusetts is more complex than elsewhere. It is larger, has ample parking space, often has a refrigerated storage room, and features a wide selection of vegetables starting with asparagus season until after Thanksgiving.

The roadside market is usually located on the farm, and not necessarily on a well-traveled main road since it does not cater to transients but rather to local people who shop regularly for quality produce. Usually prices at the roadside market are higher than at chain stores, and the

(*Continued on page* 12)

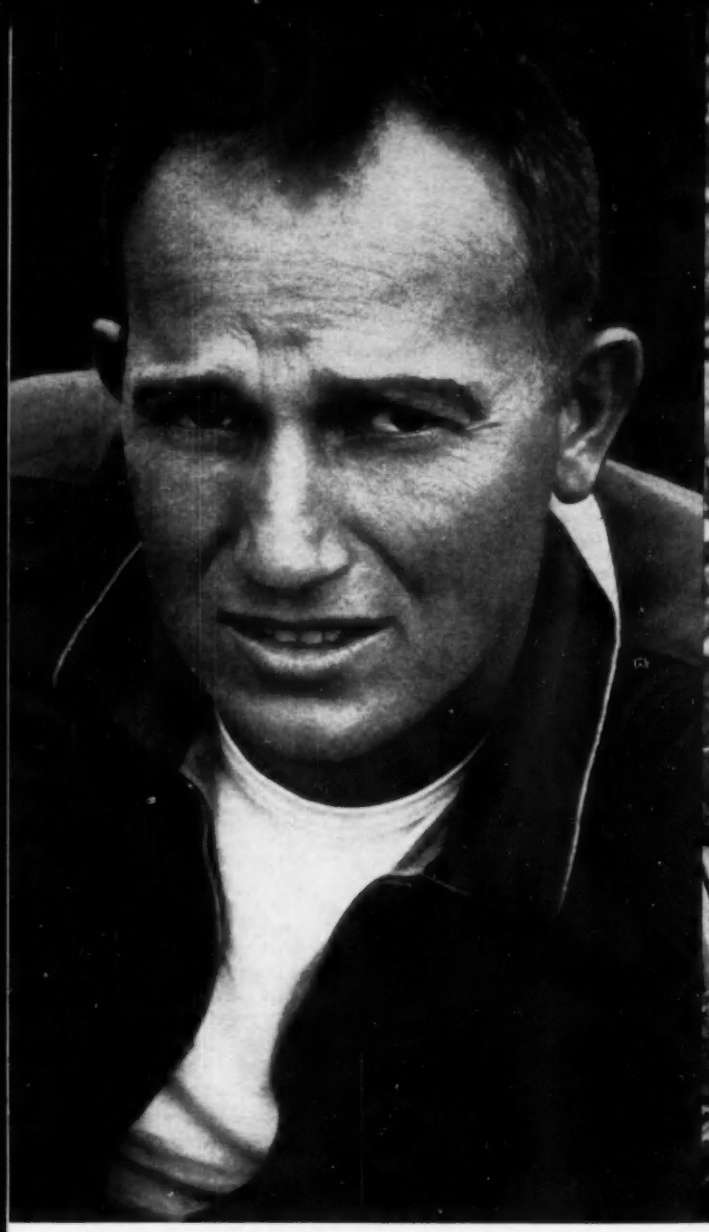
Roadside markets are important retail outlets since local customers patronize them regularly.



SHORT-RESIDUAL DIBROM*

"DIBROM can sure bail you out of trouble," says Charles Fowler, partner, Carter & Fowler, South Haven, Michigan. "It gives exceptionally fast kill of loopers, cabbage worms and aphids, and you can use it up to 4 days before cutting. Last year, we'd have had a big loss late in the season if we hadn't been able to get a quick kill with DIBROM." **DIBROM gives fast, effective kill — mainly by contact action — of insects in all stages of growth, except eggs. It controls loopers and other caterpillars, leaf miners, aphids, leafhoppers, many more. DIBROM is safer to handle than most phosphates, compatible with most fungicides and insecticides, except highly alkaline materials.**

*DIBROM IS THE TRADEMARK OF CALIFORNIA CHEMICAL COMPANY, ORTHO DIVISION FOR PHOSPHATE INSECTICIDE. T.M. REG. U.S. PAT. OFF.; ORTHO. ON ALL CHEMICALS, READ DIRECTIONS AND CAUTIONS BEFORE USE.



ENDS LATE SEASON LOSSES

"I'd stop growing broccoli if it weren't for DIBROM," says Grower Walter J. Kern, Jr. of Monroeville, New Jersey. "I'm getting close to a 95 percent kill of cabbage loopers and aphids with every DIBROM spray — a better kill by 30 percent than I've had with other insecticides." **ORTHO DIBROM has a residual life of only a few days and can be used within 4 days of harvest time. It is registered for use on cabbage, broccoli, cauliflower, lettuce, beans, Brussels sprouts and many other vegetables. Available in two forms — ORTHO DIBROM 4 Dust or ORTHO DIBROM 8 Emulsive.**

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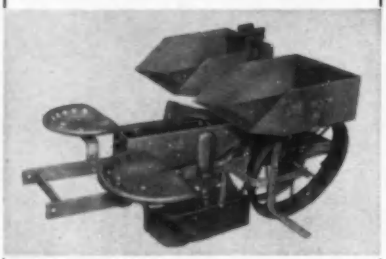
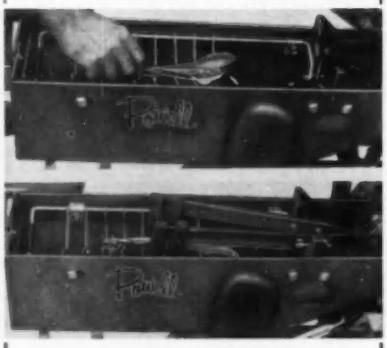
POWELL "42" TRANSPLANTERS



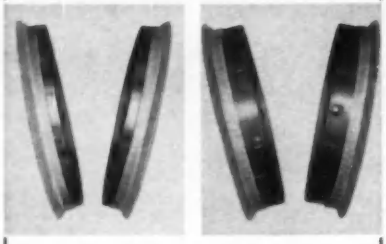
"42" Basic Unit

In 1 or Multiple Row Lift Types, 1 or 2 Row Pull Types. Also with Fertilizer Equipment.



Plant Pick-up Tray

Simply drop plants into the tray. The "42" spaces and waters them precisely.



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VGAA SPEAKS UP

THE following is the testimony of the Vegetable Growers Association of America before the Senate Committee on Agriculture on S-1643 (popularly known as the Omnibus Farm Bill). The statement was presented by Walter F. McCaleb, Jr. As we go to press, action on this bill is still pending.

"Our association holds to its basic principle of many years standing that we need more freedom in agriculture and less governmental encroachment on the free enterprise decisions of farmers. We, therefore, oppose S-1643 as a major effort to further curtail the operation of the free enterprise system in agriculture.

Specifically, we strongly object to this proposed legislation because, through it, the Congress would cede to an executive department its proper legislative function and retain only a limited veto power. We are not willing to concede at all that any executive department can legislate as well as the Congress.

In our opinion, the Congress is much closer to the actual facts in a legislative situation than any executive department, has much better lines of communication with the people affected, and represents a diversity of attitude and geographical representation which, by its very nature, is denied to an executive department.

We do not believe that the Congress should count on the commodity advisory committees for much of a contribution to the program contemplated under this bill. The Secretary of Agriculture would control such a committee through his appointive power and that committee will become merely convenient window-dressing to disguise the real decisions which will be made by the Secretary of Agriculture.

To preserve any independence in these committees, it is essential that the members be elected by the producers and that the tenure of the members of the committees be independent of appointment by an executive department.

S-1643, by opening the door for national marketing orders, would make it possible for the Secretary of Agriculture, through grade restrictions, for example, to set up standards which some areas, due to climatic features or varieties grown, could not possibly meet. A dominant area in the production of a particular commodity might so be able to control a national marketing order as to kill healthy competition from competing areas.

It is our opinion that S-1643 introduces a destructive principle into the legislative process which our American system of government cannot tolerate. No executive department should initiate law. No legislation, either by the Congress or by an executive department, should become law without the right of those affected to a prior hearing. S-1643 abridges or abolishes these fundamentals of our constitutional heritage in exchange for the questionable benefits of executive paternalism."

MASSACHUSETTS

(*Continued from page* 9)

quality and freshness of the produce are better.

Many growers have found roadside selling to be a practical and profitable answer to the problem of fewer and fewer large-scale buyers and the intense out-of-state competition on the wholesale market.

The key to successful management of a roadside market in Massachusetts is to offer the customer 15 to 20 kinds of vegetables. This makes it necessary to grow small fields of various kinds of vegetables, many of which are replanted four or five times during the year.

Most of the vegetable farms in Massachusetts are equipped for irrigation. In the early days irrigation was of the Skinner type, but gradually this has changed to where almost all of it is now the rotary type with portable pipe. The sources of water are many and varied, including city water, lakes and streams, and ponds and water holes.

An important cost factor on Massachusetts vegetable farms is labor. The present high cost of labor is forcing growers to enlarge their farms to justify the greater investment in machinery that will reduce their need for hand labor. Where hand labor is used it is performed by seasonal workers brought in from Puerto Rico.

Small farms up to 20 acres in size are in most instances sufficiently mechanized so that most of the work is done by the owner and his family.

The Bay state vegetable grower has had the help and assistance of research and extension men from the University of Massachusetts. The Waltham Field Station was established near Boston at the request of vegetable growers in order that research work could be done close to the large production areas.

From this station have come varieties of vegetables particularly adapted to the area and market. These include the Waltham Field Station strain of Hutchinson carrot, Trellis 22 tomato, Waltham 29 broccoli, Waltham Hicolor carrot, and Waltham Washington asparagus; and for the greenhouse, Waltham Forcing and Waltham Hybrid tomatoes.

The university at Amherst has developed early varieties of sweet corn including Golden Jewel, Golden Beauty, and Barbecue.

The Boston Market Gardeners Association, the oldest vegetable growers association in America, has its headquarters at the Waltham Field Station. It has helped guide the research and has assisted the industry in many ways.

This organization is made up of progressive vegetable growers who provide the kind of leadership that

KILL THE DRIFT-RESIDUE PROBLEM AS WELL AS THE INSECTS

That cloud of insecticide will eliminate many insect problems, but it could cause another problem — drift residue. But it won't because it's malathion.

Fact: *Crops — including vegetables — cannot reach the consumer carrying insecticide residues (from direct application or drift) which exceed limits set by the Food and Drug Administration.* Violation can result in loss of produce or contracts.

Problem: *Many powerful insecticides, because of their persistence, can't give all-season protection from insects and still conform to residue regulations.* This creates a difficult situation for you. You must keep down residues, but still give your vegetables all-season protection from insects.

Solution: Malathion. *Malathion makes it easy to conform to regulations, while giving you full-season use of its powerful, wide-range insect control.*

Here's why.

Malathion lets you control insects ...without leaving residues

Malathion is low in toxicity to man. And, it kills quickly, but does not leave persistent residues on crops. For these reasons, malathion has a high residue *tolerance* on edible crops. Malathion can be used on most vegetables as close as three days from harvest . . . as close as 24 hours on many . . . and up to five or seven days from harvest on the rest. *Drift-residue danger is minimized, because malathion has high residue tolerances on crops often subject to drift-residue exposure.*

Malathion simplifies insect control

Malathion has been accepted by the USDA for more uses than any other insecticide. It controls nearly every kind of vegetable insect pest, including aphids, thrips, leafhoppers, beetles, weevils, worms, and loopers . . . a total of 20 different insects attacking 43 vegetables! When you use malathion, one insecticide does the job of many.

Malathion lets you solve resistance problems

Of special importance in many areas is malathion's effectiveness in controlling insects that have become — or are becoming — resistant to the chlorinated insecticides. Malathion is a powerful *phosphate* insecticide. It controls resistant cabbage-loopers and many other insects resistant to chlorinated insecticides.

Malathion is easy to handle

The USDA calls malathion "one of the safest insecticides to handle." You don't need a respirator or special protective clothing when you use malathion. Malathion has a record of safety unequalled by any other widely-used insecticide.

Write for free "Malathion Handbook." American Cyanamid Company, Agricultural Division, N. Y. 20, N. Y.

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Dusts containing pyrethrins made from Dry Pyrocide are exempt from tolerance requirements under the Miller Amendment. They are so safe they can be used right up to market time . . . thus protecting your crops from late insect invasions that can eat deep into your profits.

Dusts containing pyrethrins are safe to handle and apply too.

If you're looking for an insecticide that is powerful enough to give your crops immediate protection . . . yet so safe that it can be used right up to market time . . . you should check dusts made with Dry Pyrocide, containing pyrethrins.

Dry Pyrocide has long been recognized as one of the fastest-killing, widest range insecticides. This year, it's gaining new prominence because of its high safety factor.

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insures a sound and influential organization.

With 8700 acres in production, sweet corn is the major vegetable crop grown in Massachusetts and it brings in the largest income. Cool night temperatures help to produce a very high quality product.

The roadside stand operator has found that fresh-picked corn is a must. Many growers pick several times a day in order to supply their customers with field-fresh corn.

Some stand operators do not have sufficient land to grow their own corn, and this has made a place for such growers as William Richards, of Forestdale on Cape Cod, who markets almost all of the production from his 70 acres of corn to roadside stand operators on the cape.

Varieties grown in this area are North Star, Golden Beauty, Barbecue, FM Cross, Golden Cross Bantam, and Iochief.

Tomatoes are another important crop, and are grown mostly on trellises. While the cost of producing tomatoes on trellises is high, production also is high—as much as 50 tons per acre.

Growers usually produce their own tomato plants, and by using ample amounts of fertilizer and irrigation, and the proper spray program, are able to make tomatoes one of their most profitable crops.

All of these tomatoes stand up well on the market and are popular in Boston and New York City. John Asoian, of Andover, is one of those growers who specialize in producing top quality trellis tomatoes. He puts up a good package and finds a ready market for his crop.

A wide variety of squash is grown. Summer squash includes such varieties as Straightneck and Cocozelle; fall and winter squash include Turban, Butternut, and Hubbard. The latter two varieties are usually put in storage.

The sandy soils of Massachusetts are ideal for the production of carrots. In the past few years growers have changed from bunching their carrots to bagging them in polyethylene bags. Waltham Hicolor is a long, slim, dark orange carrot that produces a high yield of No. 1 carrots. Imperator and Gold Pak also are grown. Harvesting and marketing of carrots extends from late July into December.

The growing of asparagus has shifted in the past 30 years from the original area near Concord to the Cape Cod area until it is now firmly settled in the Connecticut Valley in and around the town of Hadley. It is not a very profitable crop but about 1600 acres are grown in this area, and most of it is sold through commission houses in the Faneuil Hall Market.

Pickling cucumbers have become a more important crop in recent years, and there are indications that this trend will continue. With varieties resistant to both scab and mosaic, the Connecticut Valley's fertile fields can produce almost unbelievable yields. The average yield in this area last season was over 500 bushels per acre and several growers had yields in excess of 1000 bushels per acre.

The state of Massachusetts produces most every kind of vegetable to some extent. Lettuce, celery, cabbage, spinach, and beans are produced in addition to those crops already mentioned, and some of the specialty crops such as escarole, chickory, Romaine, and scallions are always to be found in Bay state markets. THE END.

CALIFORNIA SENATE KILLS MINIMUM WAGE BILL

Special Wire from California Correspondent William J. Monahan

MARYSVILLE, CALIF., JUNE 13: FOR SECOND TIME IN TWO YEARS CALIFORNIA STATE SENATE HAS KILLED MINIMUM WAGE BILL THAT WOULD HAVE COVERED 300,000 WORKERS IN NATION'S BIGGEST POOL OF HIRED FARM HANDS. TWO YEARS AGO FARM UNION ORGANIZATIONS TRIED FOR 90 CENTS AN HOUR MINIMUM; THIS YEAR THEY JOINED WITH OTHER AFL-CIO UNIONS IN BATTLE FOR $1.25 MINIMUM FOR ALL WORKERS IN STATE. STATE ASSEMBLY APPROVED BILL BUT SENATE COMMITTEE ON LABOR SHELVED MEASURE AFTER SHARP DEBATE IN CLOSING DAYS OF 1961 LEGISLATURE'S SESSION. FARM MINIMUM WAGE LAW IN CALIFORNIA IS NOW DEAD ISSUE FOR AT LEAST TWO YEARS. MEANWHILE, FARM ORGANIZATIONS ARE BATTLING IN HARVEST REGIONS FOR BASIC $1.25 AN HOUR WAGE PLUS UNION RECOGNITION. LABOR CONFLICT IN SACRAMENTO VALLEY IS OFF TO SLOW START AFTER STANDOFF HASSELS IN CHERRY AND LETTUCE REGIONS OF SAN JOAQUIN VALLEY. ALL CENTRAL CALIFORNIA GROWERS ARE GIRDING FOR TROUBLESOME SUMMER ALTHOUGH FARM CIRCLES CLAIM THEY'RE IN STRONGER POSITION THAN LAST YEAR WITH NUMEROUS PRIVATE EMPLOYMENT SERVICES IN OPERATION, LARGE SUPPLY OF DOMESTIC WORKERS MOVING INTO STATE, AND STRIKE INSURANCE AVAILABLE FOR GROWERS IN CRITICAL CROPS. EARLY DECISION ON TONNAGE PAYMENTS INDICATES STRONG GROWER-CANNER CO-OPERATION MAY PREVAIL IN 1961 ENCOURAGING GROWER IN SPECIALTY CROPS TO BUCK UNION DEMANDS.

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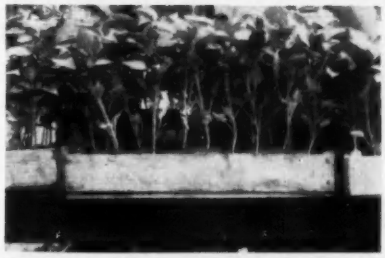

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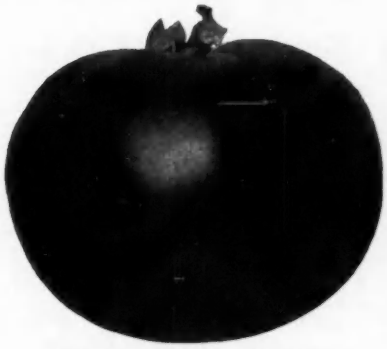

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Peto Seed Co., Saticoy, Calif.
Martin Rispens & Sons, P.O. Box 5, Lansing, Ill.
Lawrence Robinson & Sons, Breeder Div., Seed Research Specialists, Inc., Modesto, Calif.
Robson Quality Seed, Inc., Hall, N. Y.
Waldo Rohnert Co., Breeder Div., Seed Research Specialists, Inc., Hollister, Calif.
Rohnert of Idaho, Breeder Div., Seed Research Specialists, Inc., Hollister, Calif.
Seed Research Specialists, Inc., Modesto, Calif.
Walter S. Schell, Inc., 10th & Market Sts., Harrisburg, Pa.
Simpson Nursery Co., Box 178, Monticello, Fla.
Standard Seed Co., 931 W. 8th St., Kansas City 1, Mo.
Francis C. Stokes Co., Vincentown, N. J.
Sweet Corn Research, Inc., Breeder Div., Seed Research Specialists, Inc., Modesto, Calif.
Otis S. Twilley, Salisbury, Md.
United States Seed Co., Inc., 417 N. 3rd St., St. Louis, Mo.
Vaughan's Seed Co., 601 W. Jackson Blvd., Chicago 6, Ill.

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Willhite Melon Seed Farms, Weatherford, Texas
Wisconsin Cabbage Seed Co., Breeder Div., Seed Research Specialists, Inc., Racine, Wis.
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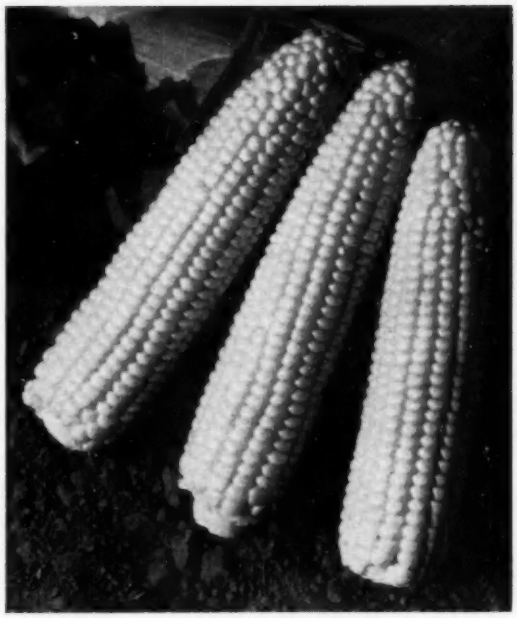

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For Market Growers

	Garden Packet	Trade Packet	One Ounce	One Pound
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HOMESTEAD 24	"	"	"	"
ROMA	"	"	"	"
RUTGERS	"	"	"	"
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Butt's Plant Farms, Thorndale, Tex.
The Conner Co., Augusta, Ark.
J. P. Councill Co., Franklin, Va.
Crescent Farms, Moultrie, Ga.
Decatur Seed Shop & Greenhouse, Decatur, Mich.
W. G. Farrier Plant Co., Omaha, Tex.
Fieldhouse Fruit Farm, Dodgeville, Wisc.
C. G. Foulks Plant Farms, Amite, La.
French Nursery Co., Clyde, Ohio
P. D. Fulwood, Tifton, Ga.
W. Grossmann & Son, Petersburg, Va.
Irrigated Plant Farms, Thorndale, Tex.
Keller Seed Store, Shawnee, Okla.
Peter W. Klippert, Rt. 2, Box 511, Des Plaines, Ill.
F. Lagomarsino & Sons, Sacramento, Calif.
L. P. Legg, Ashburn, Ga.
The J. Chas. McCullough Seed Co., Eggleston Ave., Cincinnati 1, Ohio

Please consult Alphabetical Listings Pages 15 and 16

Walter Parks, Darien, Ga.
Geo. R. Pedrick & Sons, Pedricktown, N. J.
Piedmont Plant Co., Albany, Ga.
Lawrence Robinson & Sons, Breeder Div., Seed Research Specialists, Inc., Modesto, Calif.
Paul F. Rochelle, Morristown, N. J.
Steele Plant Co., Gleason, Tenn.
Waldo Rohnert Co., Breeder Div., Seed Research Specialists, Inc., Hollister, Calif.
Rohnert of Idaho, Breeder Div., Seed Research Specialists, Inc., Hollister, Calif.
Schmidt Bros. Greenhouse, Rt. 3, Swanton, Ohio
Schroer Plant Farms, Valdosta, Ga.
Fred H. Schutter, Pleasant Valley, Iowa
Seed Research Specialists, Inc., Modesto, Calif.
Service Plant Co., Omega, Ga.
Francis C. Stokes Co., Vincentown, N. J.
Sweet Corn Research, Inc., Breeder Div., Seed Research Specialists, Inc., Modesto, Calif.
Lewis Taylor Farms, Rt. 1, Tifton, Ga.
Texas Plant Farms, Jacksonville, Texas
Erland D. Troup, Jordan Station, Ontario, Canada
Van Antwerp Seed Co., Mobile, Ala.
Vaughan's Seed Co., 601 W. Jackson Blvd., Chicago 6, Ill.
Vickers Plant Farms, Hattiesburg, Miss.
Wisconsin Cabbage Seed Co., Breeder Div., Seed Research Specialists, Inc., Racine, Wis.
Arlie Woodard, Dongola, Ill.
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New Shipping Containers for Cantaloupes. Comparison of savings from WGA jumbo crate, ⅔-capacity wirebound crate, and ⅔-capacity, full telescope fiberboard box. For your copy, write U. S. Department of Agriculture, Agricultural Marketing Service, Washington, D. C., and ask for Marketing Research Report No. 459.

Sweetpotato Breeding and Yield Studies for 1960 by Julian C. Miller. A progress report on breeding methods and techniques and yield tests in various counties in Louisiana. Write to Department of Horticulture, Louisiana State University, Baton Rouge 3, for Horticultural Research Circular 46.

Effects of Delayed Initial Salting on Transit Temperatures of California Lettuce Shipped by Rail. Comparison of lettuce shipments in pre-iced and pre-salted cars and in cars with initial salting delayed until the first re-icing. Write to U. S. Department of Agriculture, Agricultural Marketing Service, Washington, D. C., for AMS-433.

Greenhouse Vegetable Production in Ontario. Discussion of greenhouse environment, sanitation, soil sterilization, soil testing, and diseases. Production tips on cucumbers, lettuce, radishes, and tomatoes. Write to Ontario Department of Agriculture, Parliament Buildings, Toronto, Ontario, Canada, for Bulletin 526 and enclose 25 cents. Supply is limited; only one copy per person.

Commercial Production of Vegetable and Flower Plants by Raymond Sheldrake, Jr., and James W. Boodley. Guide to plant growing structures, artificial media and mixtures, containers, insect and disease control, sales, as well as cultural information. Write to Agricultural Extension Service, Cornell University, Ithaca, N. Y., for Cornell Extension Bulletin 1056.

Yield and Quality of Pickling Cucumbers and Cantaloupes as Affected By Fertilization. Results of research studies conducted on four different soils from the Coastal Plain, Arkansas River bottom, Limestone Valley, and Uplands areas. Write to Bulletin Room, Agricultural Experiment Station, University of Arkansas, Fayetteville, for Bulletin 643.

Tomato Marketing in Georgia by Roy W. Green. A study of acreage and production, prices, and marketing practices with information on planning adjustments in production and marketing of tomatoes for the fresh market. Write to University of Georgia, College Experiment Station, Athens, for Bulletin N. S. 77.

Insects and Diseases of Vegetables in the Home Garden by L. B. Reed and S. P. Doolittle. Although prepared especially for the home gardener, this booklet contains color photographs of various insects, as well as full description of both insects and diseases. Copies of Home and Garden Bulletin No. 46 may be purchased at 25 cents each from Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.

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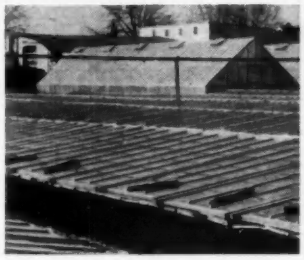

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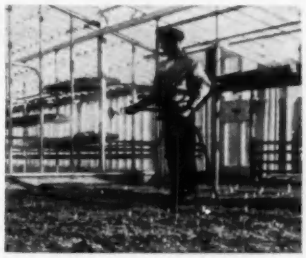

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Brownell Co., 308 N. Fendlay St., Dayton, Ohio
Kewanee Boiler Co., Kewanee, Ill.
Lord & Burnham, Div. of Burnham Corp., Irvington, N. Y.
Milwaukee Boiler Mfg. Co., 1101 So. 41st St., Milwaukee, Wis.

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Florist Products, 1843 Oakton, Des Plaines, Ill.
Growers Equipment Co., 5818 W. 36th St., St. Louis Park 16, Minn.

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Advance Co., Inc., Richmond, Ind.
Jednak Floral Co., P.O. Box 1917, Columbus 16, Ohio
Lord and Burnham, Div. of Burnham Corp., Irvington, N. Y.
Norky-Hinkle Mfg. Co., Paris, Ky.
The Ventender System, 28 Pleasant St., Chagrin Falls, Ohio
Yoho & Hooker, 523 Williamson Ave., Youngstown,

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Florists Mutual Insurance Co., National Bank Bldg., Edwardsville, Ill.

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A. Dietsch Co., 2640 Sheffield Ave., Chicago 14, Ill.
Florist Products, 1843 Oakton, Des Plaines, Ill.
Foley Greenhouse Mfg. Co., 7711 Van Buren St., Forest Park, Ill.
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Horto Corp., Salem, Massachusetts
Ickes-Braun Greenhouse Mfg. Co., 2340 Wabansia Ave., Chicago 47, Ill.
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Modern Greenhouse Mfg. Co., 2511 Jackson St., N.E., Minneapolis, Minn.
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Yoho & Hooker, 523 Williamson, Youngstown, Ohio

SASH

Gaines Hardwood Lumber Co., 18 Branch St., St. Louis 7, Mo.
Ickes-Braun Greenhouse Mfg. Co., 2340 Wabansia Ave., Chicago 47, Ill.
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Lindig Mfg. Co., Inc., 1875 West County Rd. C, St. Paul 13, Minn.
W-W Grinder Corp., Wichita 4, Kans.

Please refer to alphabetical listings pages 15 and 16

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Kohler Co., Kohler, Wis.
D. W. Onan & Sons, Inc., University Ave., S. E. at 25th, Minneapolis 4, Minn.
United States Motors Corp., Oshkosh, Wis.

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Armstrong Machine Works, 676 Maple St., Three Rivers, Mich.
Florist Products, 1843 Oakton, Des Plaines, Ill.

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Florist Products, 1843 Oakton, Des Plaines, Ill.

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Iron Fireman, 3170 W. 106th, Cleveland, O.

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Florist Products, 1843 Oakton, Des Plaines, Ill.
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Benson-Maclean, Bridgeton, Ind.
Celanese Corporation of America, Plastics Div., 290 Ferry St., Newark, N. J.
Central States Paper and Bag Co., 5221 Natural Bridge, St. Louis 15, Mo.
Dao Corporation, Terre Haute, Ind.
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Flex-O-Glass, Inc., 1104 N. Cicero Ave., Chicago 51, Ill.
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Glick Twins, Pharr, Texas
Lamex, Inc., Norcross, Ga.
Morton Chemical Co., Agricultural Chemical Div., 110 N. Wacker Dr., Chicago 6, Ill.
Peter & Co., 3618 Lexington Rd., St. Mathews, Ky.
Pexco Bag Mfg. Co., 32 So. Huron St., Toledo 4, Ohio
Plax Corp., Hartford, Conn.
Producer's Exchange, Inc., 20-32 So. Huron St., Toledo 4, Ohio
Reynolds Metals Co., 6601 W. Broad St., Richmond, Va.
Rough Brothers, 4229 Spring Grove Ave., Cincinnati 23, Ohio
Union Carbide Plastics Div. 270 Park Ave., New York, N.Y.
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J. I. Case Co., 700 State St., Racine, Wis.
Ferguson Mfg. Co., Inc., Suffolk, Va.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.
Massey-Ferguson, Inc., Racine, Wis.
Minneapolis-Moline Co., Hopkins, Minn.
Oliver Corp., 400 W. Madison, Chicago 6, Ill.

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John Deere, Moline, Ill.

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Campbell-Hausfeld Co., Harrison, Ohio
J. I. Case Co., 700 State St., Racine, Wis.
John Deere, Moline, Ill.
Gravely Tractors, Inc., Dunbar, W. Va.
Harbison-Paine, Inc., Box 448, Loveland, Colo.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.
McCune & Co., 3721 Mahoning Ave., Youngstown 9, Ohio
Massey-Ferguson, Inc., Racine, Wis.
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Oliver Corp., 400 W. Madison St., Chicago 6, Ill.
Roths Industries, Inc., Alma, Mich.
Southern Plow Co., Columbus, Ga.
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Oliver Corp., 400 W. Madison St., Chicago 6, Ill.
L. H. Schultz Mfg. Co., Box 27, Rochelle, Ill.
Tractor and Implement Div., Ford Motor Co., Birmingham, Mich.

BE SURE TO REFER TO

BUYER'S GUIDE INDEX.....pages 15-16

PESTICIDE BRAND NAMES .....pages 43-44-46

WEED CONTROL GUIDE.....pages 50-51

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Dragon Eng. Co., 626 McClary, Oakland 21, Calif.
Gotcher Engineering & Mfg. Co., Clarksdale, Miss.
KBH Corp., Clarksville, Miss.
Marvin Landplane Co., P. O. Box 209, Woodland, Calif.

MULCH

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Benson-Maclean, Bridgeton, Ind.
Central States Paper and Bag Co., Inc., 5221 Natural Bridge, St. Louis 15, Mo.
Chester Packaging Div., St. Regis Paper Co., 150 E. 42nd St., N. Y., N. Y.
Cincinnati Cordage & Paper Co., E. Wayne & Scott St., Lima, Ohio
Dao Corporation, Terre Haute, Ind.
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Florist Products, 1843 Oakton, Des Plaines, Ill.
Gering Plastics Div., Studebaker-Packard Corp., Kenilworth, N. J.
Glick Twins, Pharr, Texas
Lamex Inc., Norcross, Ga.
Peter & Co., 3618 Lexington Rd., St. Mathews, Ky.
Rough Brothers, 4229 Spring Grove Ave., Cincinnati 23, Ohio
Sound Screen Supplies, Inc., 752 Broadway, N. Y. 3, N. Y.
Warp Bros., Chicago 51, Ill.

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S & H Set Onion Planter Co., Pleasant Valley, Iowa

ONION SET TOPPERS

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They work with practically all large, efficient high-speed tractors—do a wide variety of jobs!

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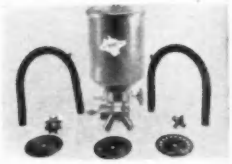

8197X Vegetable Hopper Unit—plants a wide variety of vegetable seeds . . . including apple, bean, beet, cabbage, corn (in drills), dill, endive, field peas, garlic, kale, leek, lettuce, okra, radish, rice, sage, turnip and many others. Special plate and brush feed wheel available for fine grass seed sowing.

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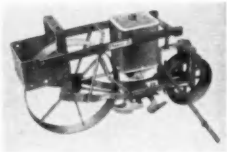

9192X Seeder Unit—same seeding principle as 7135X Unit, with the added advantages of drawbar arch, lifting bales, compression springs and spring loaded scraper; also spacing bar for seeder spacing of 9 to 15 in one inch intervals.

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2¼ inches		Square		Round	
2,000 to 28,000	2,000	$10.80M	36#	$8.60M	29#
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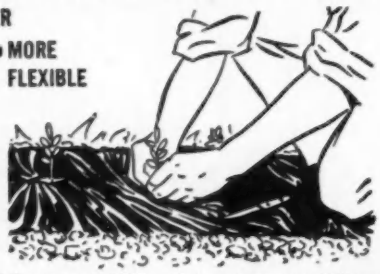

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They prevent leaching, hold the nitrogen and release it slowly for larger, healthier plants. And, you plant pot and all . . . saves time, trouble and money. Yes, Tomatoes, Cucumbers, Peppers, Melons and Egg Plant in Val-Peat® Pots mature faster, cost less to raise and sell easier.

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July 10 — Wisconsin Berry and Vegetable Growers Association summer field tour, Peninsula Branch Station, Sturgeon Bay.

July 25—Muck Crops Field Day, Michigan State University Muck Experiment Farm, Bath, Mich.—Michigan State University Information Services, East Lansing.

Aug. 20-23—American Institute of Cooperation annual summer session, University of Minnesota, Minneapolis.—E. Fred Koller, Committee Chairman, University of Minnesota, Minneapolis.

Aug. 22-23—Ohio Pesticide Institute, Ohio Agricultural Experiment Station, Wooster.

Aug. 27-30—American Society for Horticultural Science annual meeting, Purdue University, Lafayette, Ind.—Roy E. Marshall, Sec'y-Treas., Michigan State University, East Lansing.

Aug. 30—Potato Field Day, Lake City Experiment Station, Lake City, Mich.—Michigan State University Information Services, East Lansing.

Aug. 31-Sept. 8—XVI International Horticultural Congress, Brussels, Belgium.—General Secretariat, 233, Coupure Links, Ghent, Belgium.

Sept. 14-16—Texas Citrus & Vegetable Growers & Shippers convention, Shamrock Hotel, Houston.

Sept. 27-29—Florida Fruit & Vegetable Association convention, Hotel Americana, Bal Harbour.—J. Abney Cox, General Convention Chairman, Princeton.

Oct. 1-4—Produce Packaging Convention and Exposition, Chase-Park Plaza Hotels, St. Louis, Mo.—Robert L. Carey, Exec.-Sec'y, Produce Packaging Association, P. O. Box 29, Newark, Del.

Oct. 29-Nov. 1—National Agricultural Chemicals Association annual meeting, The Homestead, Hot Springs, Va. — L. S. Hitchner, Executive Sec'y., 1145 19th St., N.W., Washington 6, D. C.

Nov. 6-7—Washington State Weed Conference, Chinook Motel & Tower, Yakima.

Dec. 3-7—National Junior Vegetable Growers Association annual convention, Sheraton-Cadillac Hotel, Detroit, Mich.—Grant Snyder, Chairman, Department of Horticulture, University of Massachusetts, Amherst.

Jan. 22-27, 1962—New Jersey Farmers Week, Trenton.—Phillip Alampi, Sec'y., New Jersey Department of Agriculture, Trenton 25.

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Dictionary of Plant Foods
Dictionary of Pesticides
Plant Food Law Summaries by States
Pesticide Law Summaries by States
Geographic Listings of Farm Chemical Manufacturers
Listings of Specialty Chemical Manufacturers
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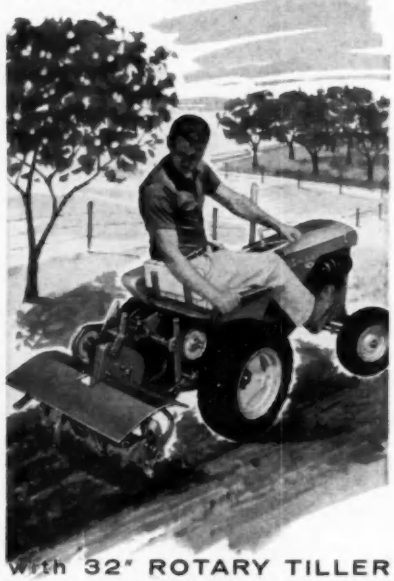

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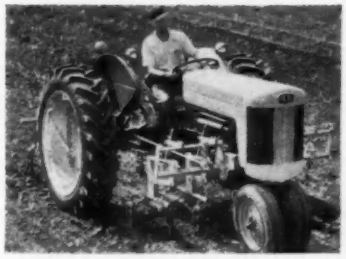

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Minneapolis-Moline Co., Hopkins, Minn.
Oliver Corp., 400 W. Madison St., Chicago 6, Ill.
Portable Elevator Mfg. Co., 920 E. Grove St., Bloomington, Ill.
Robinson Blower & Engineering Corp., San Martin, Calif.
Simplicity Mfg. Co., 2114 Spring St., Port Washington, Wis.
Winpower Mfg. Co., Newton, Iowa

Amazing NEW
WINPOWER Agrotiller
Adds years to your soil, Extra dollars to your Profits!

ROTARY CULTIVATION BLAZES NEW TRAIL IN FARMING; HEAVY-DUTY TILLAGE TOOL BOOSTS FERTILITY AND YIELDS; RETARDS SOIL EROSION; CUTS CULTIVATION TIME

Does all these Tough Jobs Well!

- ★ SEED BED PREPARATION
- ★ WEED CONTROL
- ★ PASTURE BREAKING
- ★ LAND RECLAMATION
- ★ TURNING STUBBLE
- ★ PLOWS, DISCS, HARROWS IN ONE OPERATION
- ★ IDEAL FOR ORCHARDS AND GARDENS

WRITE TODAY FOR FREE FOLDER! WINPOWER MFG. CO., NEWTON, IOWA

CULTIVATOR SHIELDS

Burch Plow Works, Inc., Evansville, Ind.
Engine Parts Mfg. Co., 1360 W. 9th St., Cleveland, Ohio
H. D. Hume Co., Mendota, Ill.
Kooiker Mfg. Co., Hull, Iowa
Miss. Engineering Co., Inc., Grand Mound, Iowa
Siebring Mfg., George, Iowa

Please consult Index to Advertisers on page 62

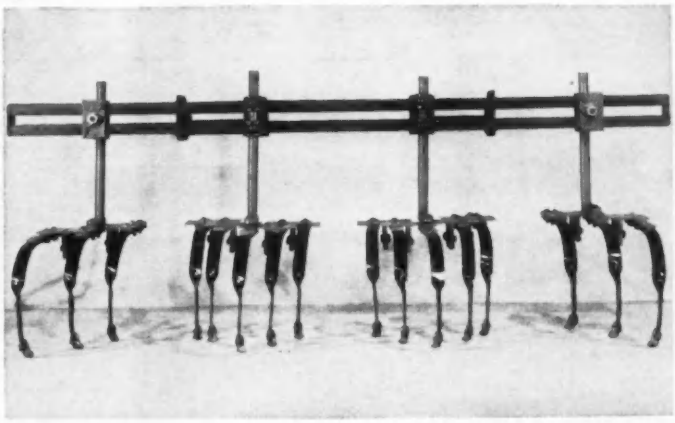
CULTIVATOR SHOVELS

S. L. Allen & Co., Inc., 5th & Glenwood, Philadelphia 40, Pa.
Blanton Plow Co., Inc., Rome, Ga.
Empire Plow Co., Inc., 3140 E. 65th, Cleveland, O.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.
King Plow Co., Atlanta, Ga.
Lantz Mfg. Co., Inc., Valparaiso, Ind.
Massey-Ferguson Inc., Racine, Wis.
National Farm Equipment & Supply, Marion, Ind.
Osmundson Forge Co., Webster City, Iowa
Osmundson Spade Mfg. Co., Perry, Iowa
Pittsburgh Forgings Co., Coraopolis, Pa.
Southern Plow Co., Columbus, Ga.
Whitaker Mfg. Co., 5719 W. 65th St., Chicago, Ill.

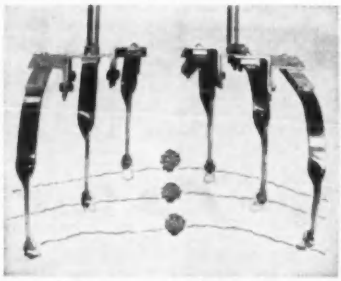
FORK LIFTS—TRACTOR

BMC Fork Lift, Blackwelder Mfg. Co., Rio Vista, Calif.
J. I. Case Co., 700 State St., Racine, Wis.
Edwards Equipment Co., Yakima, Wash.
Gladden-Haas, Inc., Owosso, Mich.
Harlo Products Corp., 101 Sheldon Ave., S.E., Grand Rapids 2, Mich.
Henry Mfg. Co., Inc., P.O. Box 521, Topeka, Kans.
Massey-Ferguson, Inc., Racine, Wis.
New Idea Farm Equipment Co., Coldwater, Ohio
Portable Elevator Mfg. Co., 920 E. Grove St., Bloomington, Ill.
Wagner Iron Wks., 1905 S. First, Milwaukee 1, Wis.

CHECK
The Complete Cultivator
Built for You!!!



Simple Adjustment — Minimum 15" Clearance



Sets to ground contour

- Throws no dirt
- Aerates the ground
- Leaves no ridge
- Mulches ground deep
- Faster, cleaner cultivation
- Quick, easy row adjustment
- The multiple cultivator that does your job
- *Write for particulars*

KIRBRO COMPANY
131 Schley St. Newark 12, N.J.
Waverly 3-4635

TRACTORS AND TILLAGE

FURROWERS—TRACTOR

Allis-Chalmers Mfg. Co., Tractor Div., 1126 S. 70th St., Milwaukee 1, Wis.
J. I. Case Co., 700 State St., Racine, Wis.
John Deere, Moline, Ill.
Earthmaster Farm Equipment, 10777 Van Owen St., Burbank, Calif.
Intercontinental Mfg. Co., Inc., Garland, Tex.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.
Massey-Ferguson Inc., Racine, Wis.
Towner Mfg. Co., Santa Ana, Calif.

GARDEN CULTIVATORS—HANDWHEEL

S. L. Allen & Co., Inc., 5th & Glenwood, Philadelphia 40, Pa.
Barker Mfg. Co., Inc., David City, Nebr.
Blanton Plow Co., Rome, Ga.
Empire Plow Co., 3140 E. 65th St., Cleveland, Ohio
National Farm Equipment Co., Inc., 142 Greene St., New York, N.Y.
True Temper Corp., 1623 Euclid Ave., Cleveland 15, Ohio

GRANULAR CHEMICAL APPLICATORS

Farmrite Sprayer, Inc., Juneau, Wis.
Gandy Co., Inc., Owatonna, Minn.
Harbison-Paine, Inc., Loveland, Colo.
Noble Mfg. Co., Sac City, Iowa
Skibbe Mfg. Co., Sodus, Mich.

HARROWS

Algoma Implement Co., 2304 University Ave., St. Paul, Minn.
Allis-Chalmers Mfg. Co., Tractor Div., 1126 S. 70th St., Milwaukee 1, Wis.
Babcock Mfg. Co., Leonardsville, N. Y.
John Bacon Corp., Gasport, N. Y.
Blanton Plow Co., Inc., Rome, Ga.
Bucher & Gibbs Plow Co., 6245 State Road, Philadelphia, Pa.
Burch Plow Works, Inc., Evansville, Ind.
J. I. Case Co., 700 State St., Racine, Wis.
Champion Mfg. Co., Newton, Iowa
Cockshutt Farm Equip., Inc., Bellevue, Ohio
John Deere, Moline, Ill.
Farm-Rite Implement Co., 4227 N. Knox Ave., Chicago, Ill.
Fleury-Bissel Div., Elora Industries, Elora, Ont., Canada
Ford Motor Co., Tractor and Implement Div., Birmingham, Mich.
Freeman Mfg., Inc., 3115 E. 28th St., Minneapolis, Minn.
J. A. Freeman & Son, 2034 N. W. 27th Ave., Portland 10, Ore.
Garden Tractor Sales & Service, Inc., 4276 E. Olympic Blvd., Los Angeles 23, Calif.
Henderson Implement Co., 1012 Farnam St., Omaha 8, Nebr.
Intercontinental Mfg. Co., Inc., Garland, Texas
International Harvester Co., 180 N. Michigan Ave., Chicago, Ill.
Kelly Ryan Equip. Co., Blair, Nebr.
Kewanee Machinery & Conveyor Co., Kewanee, Ill.
King Plow Co., Atlanta, Ga.
John R. Kovar Mfg. Co., Inc., Anoka, Minn.
Massey-Ferguson, Inc., Racine, Wis.
McAdam & Sons, Barker, N. Y.
Minneapolis-Moline Co., Hopkins, Minn.
Oliver Corp., 400 W. Madison St., Chicago 6, Ill.
Rose Mfg. Co., Yakima, Wash.
S. S. Simons Machine Works, Cornwells Heights, Pa.
Simplicity Mfg. Co., 2114 Spring St., Port Washington, Wis.
Smalley Mfg. Co., Manitowoc, Wis.
L. H. Schultz Mfg. Co., Rochelle, Ill.
Southern Plow Co., Columbus, Ga.
Taylor Implement Mfg. Co., Athens, Tenn.
Towner Mfg. Co., Santa Ana, Calif.

HITCHING DEVICE

Insta-Hitch, Powell Pressed Steel Co., Hubbard, Ohio
R. M. Wade & Co., 1919 N.W. Thurman St., Portland 9, Ore.
Western Machinery Co., Salt Lake City, Utah

LAND LEVELERS

Marvin Landplane Co., P. O. Box 209, Woodland, Calif.

MOWERS

REEL—GANG

Gravely Tractors, Dunbar, W. Va.
Simplicity Mfg. Co., 2114 Spring St., Port Washington, Wis.
Sunflower Industries, Inc., Olathe, Kans.
Worthington Mower Co., Stroudsburg, Pa.

ROTARY CUTTER-SHREDDER

Rotary Blade

Algoma Foundry & Machine Co., Algoma, Wis.
Brillion Iron Works, Inc., Brillion, Wis.
Bush Hog Mfg. Co., Selma, Ala.
E. L. Caldwell & Sons, 3204 Agnes St., Corpus Christi, Tex.
J. I. Case Co., 700 State St., Racine, Wis.
John Deere, Moline, Ill.
Ford Motor Co., Tractor and Implement Div., Birmingham, Mich.
Gravely Tractors, Dunbar, W. Va.
Howard C. Green, Portland, N.Y.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.
Lilliston Implement Co., Albany, Ga.
New Idea Farm Equipment Co., Coldwater, Ohio
Roof Mfg. Co., Pontiac 19, Ill.
L. H. Schultz Mfg. Co., Box 27, Rochelle, Ill.
Simplicity Mfg. Co., 2114 Spring St., Port Washington, Wis.
Sunflower Industries, Inc., Olathe, Kans.
Wood Bros. Mfg. Co., Oregon, Ill.

Rotary Hammer

Brady Mfg. Corp., Div. Master Vibrator Co., Dayton, Ohio
J. I. Case Co., 700 State St., Racine, Wis.
Lundell Mfg. Co., Cherokee, Iowa
Massey-Ferguson, Inc., Racine, Wis.
Mott Corp. 4014 Eberly Ave., Brookfield, Ill.
Parma Inc., Parma, Idaho
L. H. Schultz Mfg. Co., Box 27, Rochelle, Ill.
Sunflower Industries, Inc., Olathe, Kans.

SICKLE BAR—WALKING TYPE

Aircapitol Manufacturers, Inc., Wichita, Kans.
Gravely Tractors, Dunbar, W. Va.
Jari Products, Inc., 2938 Pillsbury Ave., Minneapolis 8, Minn.
National Mower Co., Cromwell Ave., St. Paul 4, Minn.

TRACTOR—POWER

Allis-Chalmers Mfg. Co., Tractor Div., 1126 So. 70th St., Milwaukee 1, Wis.
J. I. Case Co., 700 State St., Racine, Wis.
John Deere, Moline, Ill.
Ford Motor Co., Tractor and Implement Div., Birmingham, Mich.
Gravely Tractors, Dunbar, W. Va.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.
Massey-Ferguson Inc., Racine, Wis.
Minneapolis-Moline Co., Hopkins, Minn.
New Idea Farm Equipment Co., Coldwater, Ohio
Oliver Corp., 400 W. Madison St., Chicago 6, Ill.
Simplicity Mfg. Co., 2114 Spring St., Port Washington, Wis.
Sunflower Industries, Inc., Olathe, Kans.

PLOWS

Allis-Chalmers Mfg. Co., Tractor Div., 1126 So. 70th St., Milwaukee 1, Wis.
J. I. Case Co., 700 State St., Racine, Wis.
Cockshutt Farm Equip., Inc., Bellevue, Ohio
John Deere, Moline, Ill.
Edwards Equipment Co., 4312 Main St., Yakima, Wash.
Ford Motor Co., Tractor and Implement Div., Birmingham, Mich.
Gravely Tractors, Dunbar, W. Va.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.
Massey-Ferguson Inc., Racine, Wis.
Minneapolis-Moline Co., Hopkins, Minn.
Oliver Corp., 400 W. Madison St., Chicago 6, Ill.
Portable Elevator Mfg. Co., 920 E. Grove St., Bloomington, Ill.

POST HOLE DIGGERS (POWER-TRACTOR MOUNTED)

E. L. Caldwell & Sons, Inc., 3204 Agnes St., Corpus Christi, Texas
Champion Mfg. Co., Newton, Iowa
Danuser Machine Co., Fulton, Mo.
Farm Equipment Div., Standard Steel Wks., N. Kansas City 16, Mo.
Ford Motor Co., Tractor and Implement Div., Birmingham, Mich.
Interurban Industries, 2165 N. Sherman Dr., Indianapolis 18, Ind.
Massey-Ferguson, Inc., Racine, Wis.
Rear's Mfg. Co., Inc., Eugene, Ore.
Sunflower Industries, Inc., Olathe, Kans.
Von Ruden Mfg. Co., 12 Front St., Claremont, Minn.
Winpower Mfg. Co., Newton, Iowa

PULVERIZERS, PACKERS, MULCHERS

Brillion Iron Works, Inc., Brillion, Wis.
Burch Plow Works, Inc., Evansville, Ind.
J. I. Case Co., 700 State St., Racine, Wis.
Lockwood Grader Corp., Gering, Nebr.
Minneapolis-Moline Co., Hopkins, Minn.
Mott Corp., 4014 Eberly Ave., Brookfield, Ill.
Oliver Corp., 400 W. Madison St., Chicago 6, Ill.
T. G. Schmeiser Co., Fresno, Calif.
S. S. Simons Machine Works, 6223 State Rd., Cornwells Heights, Pa.

ROTOTILLER SPRING GUARD

Roto-Shoe, Indiana, Pa.

New model fits 1, 2, or 4-Row potato planters. Two outside units apply systematic insecticide. Center unit applies insecticide for control of wireworm and other soil insects.

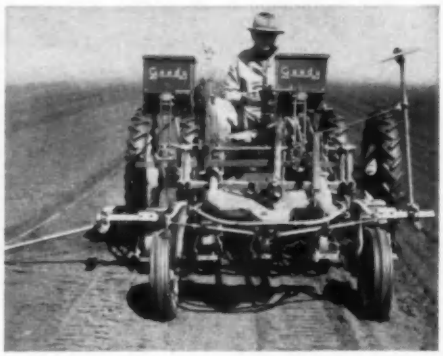


Photo above shows two Gandy Applicators being used with a Planet Jr. planter, for control of onion maggots. 5 rows are being planted at a time.

Gandy® 901 Granular Chemical ROW CROP APPLICATOR

Here's a machine that's tailormade for vegetable growers . . . an applicator that lets you "insure" your crops against soil insects and weeds in the row at planting time.

Granular chemicals accurately metered with a GANDY Row Crop Applicator take care of either one, or both, of these two crop robbers. Use a GANDY Applicator for weed control or insect control . . . or tandem mount two units for combination weed and insect control while planting.

● **PRECISION BUILT** to accurately meter and properly place granular insecticides in a 3 inch band . . . weed control chemicals in a 7 inch or 14 inch band on the row . . . at rates of from 8 ounces to 30 pounds per ACRE.

● **FITS ALL MAKES OF PLANTERS**

● **MADE BY THE PIONEER IN CHEMICAL APPLICATORS** with 25 years' agricultural chemical experience . . . tested, proved, and praised by researchers and users alike.

See your GANDY dealer or write for circular and dealer name

Gandy COMPANY ...1st IN APPLICATORS!

935 Gandrud Road ● Owatonna, Minnesota

D-17 cultivating beans.

Try this new

MARKET CROP "HOE POWER"

Rugged Allis-Chalmers high-clearance tractors are ideal for "mechanical" hoeing. Even at a "creep" the reserve power is still there for hard work. Easy handling and operation make the "D" Tractors desirable for individual or crew operation.

All Allis-Chalmers high-clearance tractors give you more than two feet of work space under the axles . . . ample room for cultivation. The 2-plow D-10 and D-12 can be throttled down for real lugging power. The Power Director in the 3-plow D-15 and 4-plow D-17 gives you 8 speeds forward with shift-on-the-go to match the job.

The dollar-making difference you get in Allis-Chalmers "D" Tractors and matching implements goes far toward cutting your production costs. Ask your Allis-Chalmers dealer for a demonstration. *Allis-Chalmers Farm Equipment Division, Milwaukee 1 Wis.*

D-12 high-clearance tractor with standard cultivator.

Ask your dealer about the Allis-Chalmers plan to finance your time purchase of farm equipment.

Get the dollar-making difference with

ALLIS-CHALMERS

TRACTORS AND TILLAGE

SMOOTHER, SEED BED
Bogardus Hall Farm, Sharon, Conn.

SPREADERS

LIME, FERTILIZERS
Belt Corporation, Orient, Ohio
Century Engineering Corp., Cedar Rapids, Iowa
Champion Mfg. Co., Newton, Iowa
John Deere, Moline, Ill.
Ezee Flow Div., Avco Distributing Corp., 3428 N. Harlem Ave., Chicago 34, Ill.
Gandy Co., Owatonna, Minn.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.
Lely, Ltd., P.O. Box 235, Burlington, Ont.
Minneapolis-Moline Co., Hopkins, Minn.
New Idea Farm Equipment Co., Coldwater, Ohio
Oliver Corp., 400 W. Madison St., Chicago 6, Ill.
Skibbe Mfg. Co., Sodus, Mich.
Tractor and Implement Div., Ford Motor Co., Birmingham, Mich.
Wade ' Rain, 1919 N.W. Thurman, Portland 9, Ore.

STONEPICKERS
Bridgeport Implement Works, Inc., Stratford, Conn.
Lockwood Grader Corp., Gering, Nebr.
Min-Kota Mfg. Co., Moorhead, Minn.
WASA Potato Harvester Co., Mars Hill, Me.

TILLER RAKE
Roseman Tractor Equipment Co., 2626 Crawford Ave., Evanston, Ill.

TILLERS

ROTARY
Ariens Co., Brillion, Wis.
Bolens Products Div., Food Mach. & Chemical Corp., Port Washington, Wis.
Eshelman Co., 119 Light St., Baltimore 2, Md.
Gravely Tractor, Dunbar, W. Va.
Howard Rotavator Company, Inc., Harvard, Ill.
Jari Products, Inc., 2938 Pillsbury Ave., Minneapolis 8, Minn.
Quick Mfg., Inc., 3240 E. Main St., Springfield, Ohio
Roto Hoe & Sprayer Co., Newbury, Ohio
Simplicity Mfg. Co., 2114 Spring St., Port Washington, Wis.
Universal Tractor Co., 324 W. 10th, Indianapolis, Ind.

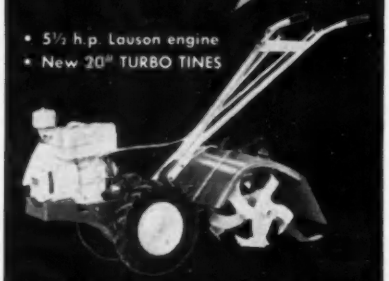
Please consult Alphabetical Index on pages 15 and 16

ROTARY TRACTOR POWER TAKE-OFF
Ariens Co., Brillion, Wis.
Bolens Products Div., Food Mach. & Chemical Corp., Port Washington, Wis.
Chickering Vegetable Equip. Co., Belding, Mich.
Great Lakes Tractor Co., Rock Creek, Ohio
Howard Rotavator Co., Inc., Arlington Heights, Ill.
McClenny Farm Machinery Co., P. O. Box 388, Suffolk, Va.
Simplicity Mfg. Co., 2114 Spring St., Port Washington, Wis.
Tractor & Implement Div. Ford Motor Co., Birmingham, Mich.
Winpower Mfg. Co., Newton, Iowa

TRACTION DEVICES
Arps Corp., New Holstein, Wis.
Massey-Ferguson Inc., Racine, Wis.
National Machine Co., 227 6th Ave. E, Des Moines, Iowa
Positive Traction Co., Parkman, Ohio

TRACTOR CHAINS
Columbus-McKinnon Chain Co., Tonawanda, N.Y.
Horner Tractor Sales, Geneva, Ohio
Positive Traction Co., Parkman, Ohio

POWER TO SPARE
on any tilling job with
Ariens ROCKET



- 5½ h.p. Lauson engine
- New 20" TURBO TINES

Ariens 5½ h.p. ROCKET . . . with fingertip controls . . . 2 forward speeds and reverse . . . exclusive tiller drive . . . all-steel TURBO TINES for 20" tillage . . . offers more quality, dependability, performance and value than any other tiller in its price range. See it . . . try it . . . and you'll agree!

Ariens Co., 183 Calumet St., Brillion, Wisconsin
Rush details about the ROCKET advertised in American Vegetable Grower.
NAME _____
ADDRESS _____
CITY _____ ZONE _____
COUNTY _____ STATE _____

TRACTORS

CRAWLER
Allis-Chalmers Mfg. Co., 1126 So. 70th St., Milwaukee 1, Wis.
J. I. Case Co., 700 State St., Racine, Wis.
Caterpillar Tractor Co., 1949 Cleveland, Peoria, Ill.
John Deere, Moline, Ill.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.
Oliver Corp., 400 W. Madison St., Chicago 6, Ill.
Windolph Tractor Co., 828 S. 21st, Portland 5, Ore.

WHEEL
Allis-Chalmers Mfg. Co., 1126 So. 70th St., Milwaukee 1, Wis.
J. I. Case Co., 700 State St., Racine, Wis.
Caterpillar Tractor Co., 1949 Cleveland, Peoria, Ill.
John Deere, Moline, Ill.
Ford Motor Co., Tractor and Implement Div., Birmingham, Mich.
Friday Tractor Co., Hartford, Mich.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.
Love Tractor Inc., Eau Claire, Mich.
Massey-Ferguson Inc., Racine, Wis.
Minneapolis-Moline Co., Hopkins, Minn.
Oliver Corp., 400 W. Madison St., Chicago 6, Ill.
Portable Aluminum Irrigation Co., Inc., P.O. Box 878, Vista, Calif.

TRACTORS—GARDEN
Ariens Co., Brillion, Wis.
S. L. Allen & Co., Inc., 5th & Glenwood Aves., Philadelphia 40, Pa.
Bolens Products Div., Food Machinery & Chemical Corp., Port Washington, Wis.
Bready Tractor & Implement Co., Solon, Ohio
Engineering Products Co., Waukesha, Wis.
Eshelman Co., 119 Light St., Baltimore, Md.
Gravely Tractors, Dunbar, W. Va.
Great Lakes Tractor Co., Rock Creek, Ohio
McCune & Co., 3721 Mahoning Ave., Youngstown 9, Ohio
Ottawa Mfg. Co., Ottawa, Kans.
Page Dairy & Farm Equipment Co., 1910 So. 81st St., Milwaukee, Wis.
Pond Garden Tractor Co., Ravenna, Ohio
Portable Aluminum Irrigation Co., Inc., P.O. Box 878, Vista, Calif.
Power King Tractor Co., 9246 W. Appleton Ave., Milwaukee, Wis.
Quick Mfg., Inc., Springfield, Ohio
Red-E Tractor Co., Richfield, Wis.
Roths Industries, Inc., Alma, Mich.
Simplicity Mfg. Co., 2114 Spring St., Port Washington, Wis.
Tiger Tractor Co., Keyser, W. Va.
Universal Tractor Co., 324 W. 10th St., Indianapolis, Ind.
Windolph Tractor Co., 828 S. 21st Ave., Portland 5, Ore.

TRACTOR UNDERDRIVE
Tractor Specialties, 1650 S. 1st St., San Jose, Calif.

VEGETABLE THINNERS
Dixie Implement Mfg. Co., Dallas, Texas
Eversman Mfg. Co., Inc., Curtis at 5th, Denver, Colo.
Walter Haertel Co., Minneapolis 8, Minn.
Palsgrove Mfg. Co., Canal Winchester, Ohio
Scott Viner Co., Columbus 8, Ohio
Silver Engineering Works, Inc., 3309 Blake St., Denver 5, Colo.
Winter Weiss Co., Denver 2, Colo.

WEEDERS
Armor Farm Implement Co., Box 785, Vancouver, Wash.
R.G. Bruner Mfg. Co., 22516 Hoover Rd., Van Dyke, Mich.
Buddingh InRow Weeder Co., Dutton, Mich.

NEWEST METHOD IN WEED CONTROL

CULTIVATES SAFELY BETWEEN EACH PLANT

WHY RISK YOUR CROP WITH CHEMICAL WEED CONTROL?

NOTE COMPLETE CULTIVATION

Write for descriptive literature and prices now.

BUDDINGH InROW WEEDER Co.
Box 54 Dutton, Mich.

Skibbe **SEED, FERTILIZER, INSECTICIDE & HERBICIDE SPREADER**

FOR COVER CROP & FALL FERTILIZING

"The spreader with the controllable spread" (Pat'd & Pats. pend.)

Apply mouse bait, cover crop and fertilizer insecticides and herbicides now in hours instead of days.

1. Control the width of spread from 2 to 40 ft.
2. Direct spread wherever desired.
3. Side dress or band applicate.
4. Seed and fertilize at the same time.

Why be satisfied with a one spread type applicator? P.T.O. driven. Now with quick mount attachments. Available in trailer or tractor mounted models.

Write for folder

SKIBBE SEED & FERTILIZER SPREADER, SODUS, MICH.

IRRIGATION AND DRAINAGE

COUPLINGS, PIPE

W. R. Ames Co., 1001 Dempsey Rd., Milpitas, Calif.
John Bean Div., Food Machinery & Chemical Corp., Lansing, Mich., and San Jose, Calif.
Champion Corp., Hammond, Ind.
Chicago Metal Mfg. Co., 37th & So. Rockwell, Chicago 32, Ill.
Dragon Engineering Co., 627 McClary, Oakland, Calif.
Evans Orchard Supply Co., 305 Delaware, Kansas City, Mo.
Farmland Irrigation Co., Inc., 64 Barnard Ave., San Jose, Calif.
McDowell Mfg. Co., 301 Stanton., Pittsburgh 9, Pa.

McDowell has the best d__n couplings in the **irrigation** business

These are the STEEL couplings—easily assembled, leak-proof, zincillated, reusable—the very best protection for your fragile aluminum pipe ends.

McDowell MANUFACTURING COMPANY

PITTSBURGH 9, PA.

Send your name and address on a postcard for name of your nearest McDowell dealer.

Michigan Orchard Supply Co., South Haven, Mich.
Miller & Poston Mfg. Co., 1115 N. Havana St., Spokane 10, Wash.
Moulton Irrigation Co., Withrow, Minn.
Pierce Irrigation, 245 Blair Blvd., P.O. Box 528, Eugene, Ore.
Portable Aluminum Irrigation Co., Inc., P.O. Box 878, Vista, Calif.
Rain Control, Inc., Hudson, Mich.
Shur-Rane, Dept. of John Bean Western Div., Food Machinery & Chemical Corp., San Jose, Calif.
Wade' Rain, 1919 N. W. Thurman, Portland 9, Ore.

DITCHERS, FURROWERS, SCRAPERS, LEVELERS

Allis-Chalmers Mfg. Co., 1126 S. 70th St., Milwaukee 1, Wis.
Arps Corporation, New Holstein, Wis.
Caterpillar Tractor Co., 1949 Cleveland, Peoria, Ill.
Chattin Ditcher Co., Boise, Idaho
Danuser Machine Co., Fulton, Mo.
John Deere, Moline, Ill.
Gravely Tractors, Inc., Dunbar, W. Va.
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.
Marvin Landplane Co., Box 209, Woodland, Calif.

ENGINES

Allis-Chalmers Mfg. Co., 1126 S. 70th St., Milwaukee 1, Wis.
Briggs & Stratton Corp., 2711 N. 13th St., Milwaukee 1, Wis.
J. I. Case Co., 700 State St., Racine, Wis.
Caterpillar Tractor Co., 1949 Cleveland Ave., Peoria, Ill.
Chrysler Corp., Indus. Eng. Div., 12200 E. Jefferson, Detroit, Mich.
Clinton Machine Co., Maquoketa, Iowa
Cushman Motor Works, 900 N. 21st St., Lincoln 1, Nebr.
John Deere, Moline, Ill.
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.
Ford Motor Co., Dearborn, Mich.
Friend Mfg. Co., Gasport, N. Y.
GM, Detroit Diesel Div., Detroit, Mich.
Hercules Motors Corp., 200 11th St. S.E., Canton, Ohio
International Harvester Co., 180 N. Michigan Ave., Chicago 1, Ill.
Kohler Co., Kohler, Wis.
Lauson Div., Tecumseh Products, New Holstein, Wis.
Motor Products Co., Div. of Tecumseh Products, Grafton, Wis.
The F. E. Myers & Bro. Co., Ashland, Ohio
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N.Y.
Oliver Corp., 400 W. Madison St., Chicago 6, Ill.
Rain Control, Inc., Hudson, Mich.
United States Motors Corp., Oshkosh, Wis.
Wisconsin Motor Corp., 1910 S. 53rd, Milwaukee 46, Wis.

TRICROME® RE-RING SETS are self-conforming and pre-lapped for quick seating and light-tight fit. Three of the four rings per piston are full-chromed.

NEW PARTS KITS factory-engineered for WISCONSIN ENGINES

They're brand new — and packaged for safe, easy handling and big savings. Above all, the Wisconsin kits are factory-engineered for Wisconsin Engines only.

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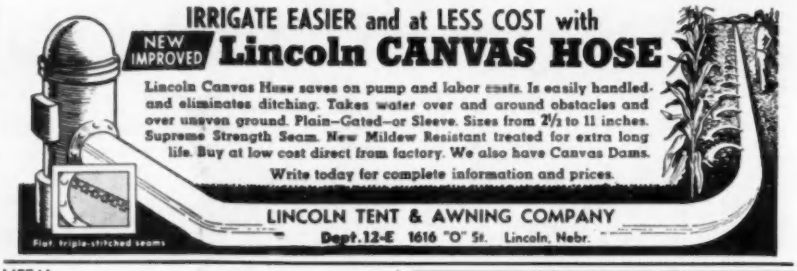

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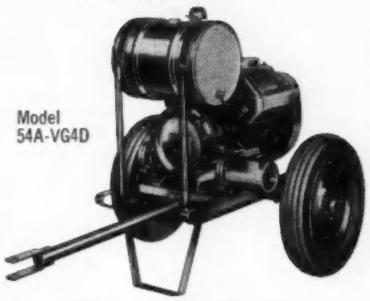

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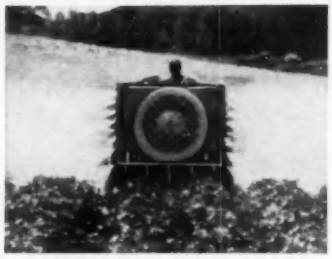

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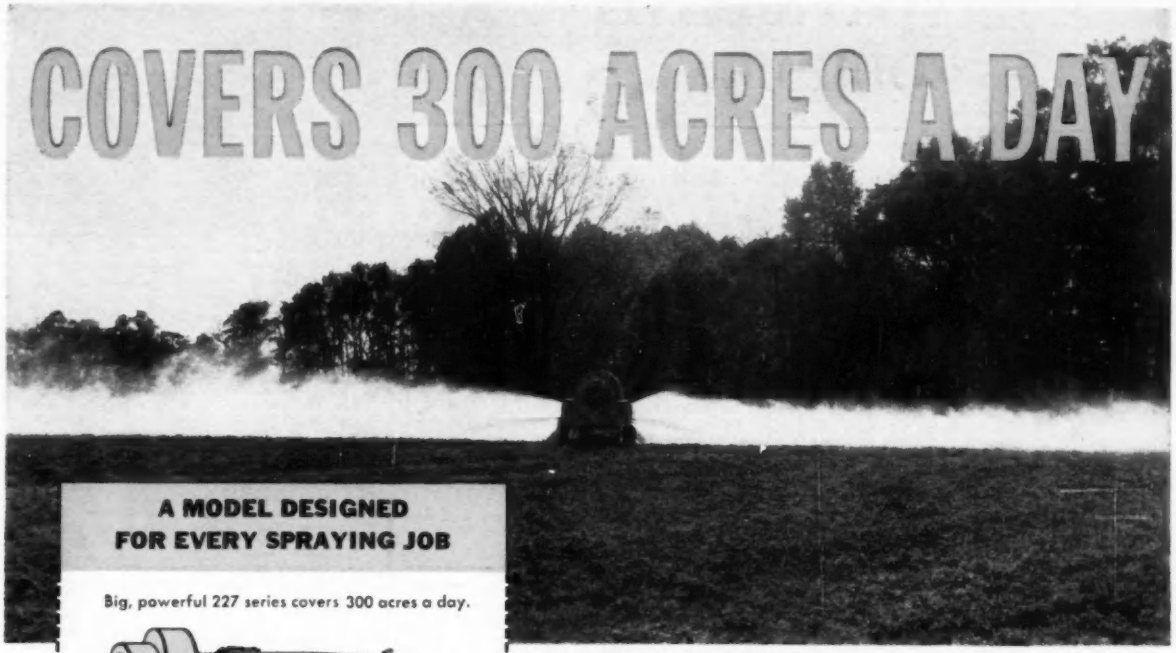

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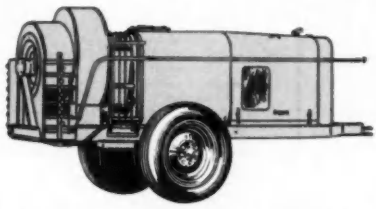

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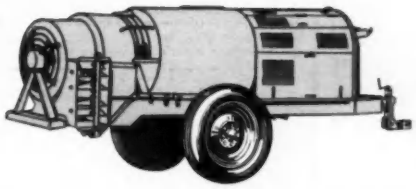

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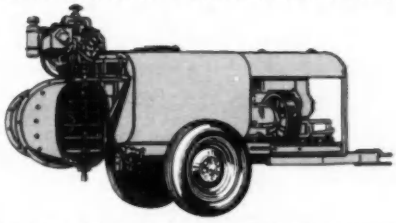

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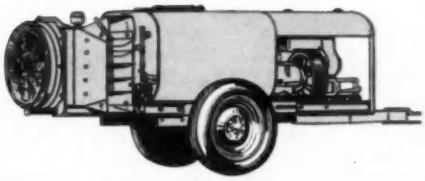


Myers Exclusive Air-Handling Technique and Two-Way Discharge give unmatched protection

Even with adverse wind conditions, Myers Air Sprayers deliver fast and effective coverage over a wide spray swath. Twin centrifugal fans deliver big volume air velocity directly off fan blades. Plants receive maximum protection, complete coverage from top to bottom — even at extreme ends of spray swath. This unmatched coverage is not available from other sprayers which depend upon the added boost of unpredictable down winds or cross winds to carry their spray pattern.

Prove to yourself ...Ask your Myers Sprayer Dealer for a demonstration in your own field — or write for more information to:

The F. E. Myers & Bro. Co.
ASHLAND, OHIO KITCHENER, ONTARIO

Myers

SPRAYING & DUSTING EQUIPMENT

DUSTERS

HAND DUSTERS

E. C. Brown Co., Canandaigua, N. Y.
Champion Sprayer Co., 6519 Heintz Ave., Detroit 11, Mich.
Dobbins Div., Chamberlain Corp., Waterloo, Iowa
Florist Products, 1843 Oakton, Des Plaines, Ill.
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago 11, Ill.
A. M. Leonard & Son, Inc., Piqua, Ohio
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
Oakes Mfg. Co., Box 1810, Tipton, Ind.
Root-Lowell Corp., 445 N. Lake Shore, Chicago, Ill.
Tatamy Products Co., Tatamy, Pa.
Tyson Orchard Service, Flora Dale, Pa.

POWER DUSTERS

Air-O-Fan Products Corp., Gilroy, Calif.
John Bean Div., Food Machinery & Chemical Corp., Lansing, Mich.; San Jose, Calif.
Besler Corp., 4053 Harlan St., Oakland 8, Calif.
Buffalo Turbine Agri. Equip. Co., Inc., Gowanda, N. Y.
Dobbins Div., Chamberlain Corp., Waterloo, Iowa
Florist Products, 1843 Oakton, Des Plaines, Ill.
Friend Mfg. Co., Gasport, N. Y.
Hardie Mfg. Co., 730 S. Main St., Wilkes-Barre, Pa.
Hub States Chemical & Equipment Co., 1522 N. Windsor St., Indianapolis, Ind.
H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago 11, Ill.
KWH Mistblower Factories, Eastern U.S. Sales Div.: Vandermolen Export Co., 378 Mountain Ave., No. Caldwell, N. J.
Root-Lowell Corp., 445 N. Lake Shore, Chicago, Ill.
Tatamy Products Co., Tatamy, Pa.
Tyson Orchard Service, Flora Dale, Pa.

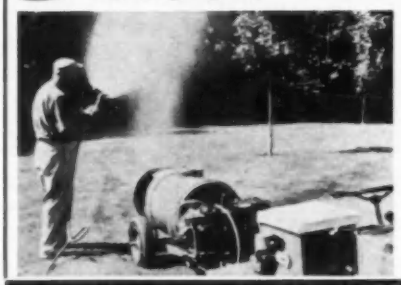
SHOULDER-MOUNTED

KWH Mistblower Factories, Eastern U.S. Sales Div., Vandermolen Export Co., 378 Mountain Ave., No. Caldwell, N. J.
Powerpak Equipment Co., Box 773, Vista, Calif.

MIXERS, DUST

Friend Mfg. Co., Gasport, N. Y.
Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N. Y.
Tatamy Products Co., Tatamy, Pa.

Skibbe PRESSURE SPRAYER



Big sprayer performance at low cost.

Pictured 50 gallon model. Very nicely balanced and easy moving even when fully loaded. 4 piston stainless steel cylinder pump. 5 to 6 gpm at pressures over 400 lbs. 3 hp engine, recoil starter, plastic lined tank, balloon tires. Gauge, gun and hose included. Other sizes available.

Write for Literature

SKIBBE SEED & FERTILIZER SPREADER, SODUS, MICH.

SPRAY PROTECTION

FACE SHIELDS AND MASKS

Acme Protection Equip. Co., 1205 Kalamazoo St., South Haven, Mich.
American Optical Co., Southbridge, Mass.
Chicago Eye Shield Co., 2727 W. Roscoe, Chicago 18, Ill.
Florist Products, 1843 Oakton, Des Plaines, Ill.
Hub States Chemical & Equipment Co., 1522 N. Windsor St., Indianapolis, Ind.
Kimball Safety Products, 9310 Wade Park Ave., Cleveland 6, Ohio
Mine Safety Appliances Co., 201 N. Braddock Ave., Pittsburgh 8, Pa.
Pulmosan Safety Equip. Corp., 644 Pacific Ave., Brooklyn, N. Y.
Tyson Orchard Service, Flora Dale, Pa.
Willson Products, Div. Ray-O-Vac Co., Madison, Wis.

Please refer to classified index on pages 15 and 16

GOGGLES

American Optical Co., Southbridge, Mass.
Chicago Eye Shield Co., 2727 W. Roscoe, Chicago 18, Ill.
Hub States Chemical & Equipment Co., 1522 N. Windsor St., Indianapolis, Ind.
Kimball Safety Products, 9310 Wade Park Ave., Cleveland 6, Ohio
Mine Safety Appliances Co., 201 N. Braddock Ave., Pittsburgh 8, Pa.
Pulmosan Safety Equip. Corp., 644 Pacific Ave., Brooklyn, N. Y.
Willson Products, Div. Ray-O-Vac Co., Madison, Wis.

RESPIRATORS

American Optical Co., Southbridge, Mass.
Chicago Eye Shield Co., 2727 W. Roscoe, Chicago 18, Ill.
DeVilbiss Co., 300 Phillips Ave., Toledo 1, Ohio
Florist Products, 1843 Oakton, Des Plaines, Ill.
General Scientific Equipment Co., 7516 Limekiln Ave., Philadelphia 50, Pa.
Hub States Chemical & Equipment Co., 1522 N. Windsor St., Indianapolis, Ind.
Kimball Safety Products, 9310 Wade Park Ave., Cleveland 6, Ohio
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Mine Safety Appliances Co., 201 N. Braddock Ave., Pittsburgh 8, Pa.
Niagara Chemical Div., Food Machinery & Chem. Corp., Middleport, N. Y.
Pulmosan Safety Equip. Corp., 644 Pacific Ave., Brooklyn, N. Y.
Tyson Orchard Service, Flora Dale, Pa.
Willson Products, Div. Ray-O-Vac Co., Madison, Wis.

SPRAY CLOTHING

American Optical Co., Southbridge, Mass.
Broadway Rubber Mfg. Co., 519 E. Broadway, Louisville 2, Ky.
Goodall Rubber Co., Whitehead Rd., Trenton 4, N. J.
B. F. Goodrich Co., 500 S. Main St., Akron, Ohio
Hodgman Rubber Co., Framingham, Mass.
Hood Rubber Co., Watertown 72, Mass.
Hub States Chemical & Equipment Co., 1522 N. Windsor St., Indianapolis, Ind.
Mine Safety Appliances Co., 210 N. Braddock Ave., Pittsburgh 8, Pa.
A. J. Tower, Div. of Sawyer-Tower, Inc., 24 Simmons St., Boston 20, Mass.
United States Rubber Co., 1230 Ave. of the Americas, N. Y. 20, N. Y.

READ AND PROFIT

The following books available through American Vegetable Grower, Willoughby, Ohio

Agriculture Unadorned—Wolfe ..... Cloth $2.50, Paper $1.50
Amateur Beekeeping—Edward L. Sechrist $3.50
American Wines and Wine-Making—Philip Wagner $5.00
Applied Entomology—Fernald $7.95
A Business of My Own—Dr. Arthur E. Morgan ..... Cloth $2.50, Paper $1.00

Care and Feeding of Garden Plants—14 authors $3.00
Commercial Fertilizers—Collings $8.50
Commercial Fruit and Vegetable Products—Cruess $15.00
Compost—F. H. Billington (Revised by Ben Easey) $2.00
Crop Protection—G. J. Rose $10.00

Destructive and Useful Insects—Metcalf, Flint and Metcalf $13.50
Diseases of Vegetable Crops—John C. Walker $9.50
Drought, Its Causes and Effects—Tannehill $3.75

Entoma—E. H. Fisher $2.00

Farm Arm Welding—V. J. Morford $2.00
Farm Management—Lynn S. Robertson $4.40
Farm Mechanics Text and Handbook—Cooke, Scranton, McColly and Phipp $6.00
Farm Soils (Their Management and Fertilization)—Worthen $4.96
Farm Tractor Maintenance—Morrison $4.00
Farmer's Handbook—John M. White $4.95
Fundamentals of Horticulture—Edmond, Musser & Andrews $7.50

Garden Soils—Arthur B. Beaumont $4.00
Gardening in a Small Greenhouse—Noble and Merkel $4.95
Gardening with Nature—Leonard Wickenden $5.00
General Horticulture—Talbert $4.00
Greenhouse Gardening Around the Year—Marion Dulles $3.75
Growing Fruit and Vegetable Crops—T. J. Talbert $4.50

Handbook for Vegetable Growers—James E. Knott $3.95
Hanna's Handbook of Agricultural Chemicals—Hanna $5.95
Harnessing the Earthworm—Thomas J. Barrett $2.75
Home Freezers—Gerald J. Stout $5.25
Horticulture Laboratory Manual—Hall $2.50
How-To Book On Strawberries—Robin Wyld $1.50
Hunger Signs in Crops—Symposium of Authors $4.50

Insect Control by Chemicals—Brown $15.00
Insect Pests of Farm, Garden and Orchard—Peairs & Davidson $8.50
Introductory Horticulture—Everett P. Christopher $7.50
Irrigated Soils—Thorne & Peterson $7.50

Law on the Farm—H. W. Hanna $6.25

Modern Farmer's Cyclopedia of Agriculture—Wilcox $5.00

Nutrition and the Soil—Dr. Lionel Picton $4.00

Our Soils and Their Management—Roy H. Donahue $5.00

Pest Control in the Home Garden—Dr. L. Pyenson $2.95
Plant Breeding for Everyone—John Y. Beaty $2.75
Plant Disease Handbook—Westcott $13.50
Plant Diseases—Gram and Weber $15.00
Plant Growth—L. Edwin Yocum $4.00
Plant Propagation, Principles & Practices—Hartmann & Kester $8.75
Plant Regulators in Agriculture—H. B. Tukey $6.50
Practical Horticulture—Shoemaker and Teskey $4.20
Principles of Weed Control—Ahlgren, Klingman & Wolf $7.00
Profitable Roadside Marketing—Donaldson & Johnstone $2.00
Propagation of Plants—Kains and McQuesten $6.95

Raising Vegetables—Ware and McCollum $6.50

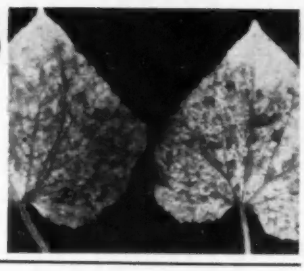
Shopwork on the Farm—Mack M. Jones $7.00
Soil-Plant Relationships—C. A. Black $7.00
Soils and Fertilizers—Firman E. Bear $6.50
Spraying, Dusting and Fumigating Plants—Hough and Mason $6.95
Successful Truck Farming—Gerald J. Stout $6.25
Sweet Corn—Walter A. Huelson $11.00

Using Commercial Fertilizer—McVickar $4.00

Vegetable Crops—Homer C. Thompson $9.00
Vegetable and Flower Seed Production—Hawthorn & Pollard $11.50
Vegetable Growing—James E. Knott $5.00
Vegetable Growing—Shoemaker $6.50
Vegetable Growing Business—Watts & Watts $6.95
Vegetable Production and Marketing—Work and Carew $5.24

Weed Control—Robbins, Crafts and Raynor $8.50
Weeds, Guardians of the Soil—Joseph Cocannouer $2.75
Welding Helps for Farmers $1.00

SPRAYS, DUSTS AND FERTILIZERS



INSECTICIDES

ALDRIN—DIELDRIN

Associated Chemists, Agr. Chem. Div.
California Chemical Corp., Ortho Div., Calif. & N. J.
Chemical Insecticide Corp.
Chipman Chemical Co., Inc.
Corona Chemical Div., Pittsburgh Plate Glass Co.
General Chemical Div., Allied Chemical Corp.
Hub States Chemical & Equipment Co.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Morton Chemical Co., Agricultural Chemical Div.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Olin Mathieson Chemical Corp., Plant Food Div.
S. B. Penick & Co.
Pennsalt Chemicals Corp.
Shell Chemical Co.
Sherwin-Williams Co.
Stauffer Chemical Co., Calif. & N. Y.
Thompson Chemicals Corp.
Thompson-Hayward Chemical Co.
Woolfolk Chemical Wks., Ltd.

*ARAMITE

California Chemical Corp., Ortho Div., Calif. & N. J.
Chipman Chemical Co., Inc.
Corona Chemical Div., Pittsburgh Plate Glass Co.
Florist Products
General Chemical Div., Allied Chemical Corp.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Naugatuck Chemical Div., U. S. Rubber Co.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Pennsalt Chemicals Corp.
Stauffer Chemical Co., N. Y. & Calif.
Thompson-Hayward Chemical Co.

BENZENE HEXACHLORIDE, LINDANE

Associated Chemists, Inc., Agr. Chemicals Div.
California Chemical Corp., Ortho Div., Calif. & N. J.
Central Chemical Corp.
Chemical Insecticide Corp.
Chipman Chemical Co., Inc.
Corona Chemical Div., Pittsburgh Plate Glass Co.
Diamond Alkali Co.
E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.
Florist Products
General Chemical Div., Allied Chem. Corp.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Olin Mathieson Chemical Corp., Plant Food Div.
S. B. Penick & Co.
Pennsalt Chemicals Corp.
B. G. Pratt Co.
Stauffer Chemical Co., N. Y. & Calif.
Swift & Co., Agricultural Chemical Div., Fla.
Thompson Chemicals Corp.
Woolfolk Chemical Wks., Ltd.

CHLORDANE

Black Leaf Products Co.
California Chemical Corp., Ortho Div., Calif. & N. J.
Central Chemical Corp.
Chemical Insecticide Corp.
Chipman Chemical Co., Inc.
Corona Chemical Div., Pittsburgh Plate Glass Co.
Florist Products
Hub States Chemical & Equipment Co.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Naugatuck Chemical Div., U. S. Rubber Co.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Olin Mathieson Chemical Corp., Plant Food Div.
S. B. Penick & Co.
Pennsalt Chemicals Corp.
B. G. Pratt Co.
Sennewald Drug Co.
Sherwin-Williams Co.
Stauffer Chemical Co., N. Y. & Calif.
Swift & Co., Agricultural Chemical Div., Ill.
Thompson Chemicals Corp.
Thompson-Hayward Chemical Co.
Velsicol Chemical Corp.
Woolfolk Chemical Works, Ltd.

*CHLOROBENZILATE

Florist Products
Geigy Agricultural Chemicals, Div. of Geigy Chemical Corp.
Miller Chemical & Fertilizer Corp.

See page 48 for addresses of companies listed in this section

DDT

American Potash & Chemical Corp.
Black Leaf Products Co.
California Chemical Corp., Ortho Div., Calif. & N. J.
Chemical Insecticide Corp.
Chipman Chemical Co., Inc.
Corona Chemical Div., Pittsburgh Plate Glass Co.
Diamond Alkali Co.
E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.
Florist Products
Geigy Agricultural Chemicals, Div. of Geigy Chemical Corp.
General Chemical Div., Allied Chem. Corp.
Hub States Chemical & Equipment Co.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Monsanto Chemical Co.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Olin Mathieson Chemical Corp., Plant Food Div.
S. B. Penick & Co.
Pennsalt Chemicals Corp.
B. G. Pratt Co.
Shell Chemical Co.
Sherwin-Williams Co.
Stauffer Chemical Co., N.Y. & Calif.
Swift & Co., Agricultural Chemical Div., Ill.
Thompson Chemicals Corp.
Thompson-Hayward Chemical Co.
Woolfolk Chemical Works, Ltd.

DEMETON

Chemagro Corp.
General Chemical Div., Allied Chem. Corp.
Miller Chemical & Fertilizer Corp.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Woolfolk Chemical Works, Ltd.

*DIAZINON

Florist Products
Geigy Agricultural Chemicals, Div. of Geigy Chemical Corp.

DIAZINON
INSECTICIDE
CONTROLS A WIDE VARIETY OF INSECT PESTS ON MANY VEGETABLE CROPS.

Hub States Chemical & Equipment Co.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Woolfolk Chemical Works, Ltd.

ENDRIN

California Chemical Corp., Ortho Div., Calif. & N. J.
Chemical Insecticide Corp.
Chipman Chemical Co.
Florist Products
General Chemical Div., Allied Chem. Corp.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Olin Mathieson Chemical Corp., Plant Food Div.
Pennsalt Chemicals Corp.
Shell Chemical Co.
Stauffer Chemical Co., N. Y. & Calif.
Velsicol Chemical Corp.

EPN

E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.
Woolfolk Chemical Works, Ltd.

*Company's brand name.

ETHION

Miller Chemical & Fertilizer Corp.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Woolfolk Chemical Works, Ltd.

*GENITE EM-923

General Chemical Div., Allied Chem. Corp.

*GUTHION

Chemagro Corp.
Miller Chemical & Fertilizer Corp.
Woolfolk Chemical Works, Ltd.

HEPTACHLOR

California Chemical Corp., Ortho Div., Calif. & N. J.
Chemical Insecticide Corp.
Chipman Chemical Co., Inc.
Geigy Agricultural Chemicals, Geigy Chemical Corp.
General Chemical Div., Allied Chemical Corp.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Pennsalt Chemicals Corp.
Stauffer Chemical Co., N. Y. & Calif.
Velsicol Chemical Corp.
Woolfolk Chemical Works, Ltd.

*KILMAG

General Chemical Div., Allied Chemical Corp.

MALATHION

American Potash & Chemical Corp.
American Cyanamid Co., Agricultural Div.
Black Leaf Products Co.
California Chemical Corp., Ortho Div., Calif.
Central Chemical Corp.
Chemical Insecticide Corp.
Chipman Chemical Co., Inc.
Florist Products
General Chemical Div., Allied Chem. Corp.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Olin Mathieson Chemical Corp., Plant Food Div.
S. B. Penick & Co.
Pennsalt Chemicals Corp.
B. G. Pratt Co.
Sherwin-Williams Co.
Stauffer Chemical Co., N. Y. & Calif.
Swift & Co., Agricultural Chemical Div., Ill.
Thompson Chemicals Corp.
Thompson-Hayward Chemical Co.
Woolfolk Chemical Works, Ltd.

SEEDS
To start your crops
BEST SPRAYS
To protect them
Write today for list
- INSECTICIDES
- FUNGICIDES
- WEED KILLERS

Letherman's
Dept. VG
Canton 2, Ohio

Dithane M-22 Users Sweep Top Tomato Grower Prizes

Three top winners in the 1960 New Jersey 15-ton Tomato Club competition used DITHANE® M-22 to control anthracnose, early and late blights, gray leaf spot and septoria leaf spot in their prize crops.

The following table lists these three champion growers, their winning figures, and their DITHANE spray programs:

	QUALITY CLASS Elmer A. Tindall Windsor, N.J.	YIELD CLASS Emidio de Silvio Cedar Brook, N.J.	4-H CLUB Bruce Jones Medford, N.J.
YIELD per ACRE	24.3 tons	34.5 tons	21.7 tons
GRADE	U.S. #1—85.2% U.S. #2—14.6% Culls—0.2%	U.S. #1—73.4% U.S. #2—26.3% Culls—0.3%	U.S. #1—64% U.S. #2—32% Culls—4%
ACREAGE	20.9	12.7	2.7
FUNGICIDE	DITHANE M-22	DITHANE M-22	DITHANE M-22
APPLICATIONS	5 at 3 lbs/acre	11 at 2 lbs/acre	7 at 3 lbs/acre

Mr. Elmer A. Tindall has been a top winner for 12 years. He is a long-time DITHANE user.

The father of Bruce Jones, the 4-H winner, is also a DITHANE user. Mr. Lester C. Jones grew 55 acres of tomatoes in 1960 with a yield of 20.9 tons per acre.

Mr. Tindall and Mr. de Silvio use RHOTHANE® for insect protection to avoid costly losses from hornworm and fruitworm. Your dealer can help you plan a spray program to help bring you prize-winning yields, too.

ROHM & HAAS
PHILADELPHIA 5, PA.

SPRAY AND SAVE WITH
DITHANE M-22

INSECTICIDES

PYRETHRUM & DERIVATIVES

California Chemical Corp., Ortho Div., Calif. & N. J.
Chemical Insecticide Corp.
McLaughlin, Gormley, King Co.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
S. B. Penick & Co.
B. G. Pratt Co.

METHOXYCHLOR

Associated Chemists, Inc., Agri. Chemicals Div.
California Chemical Corp., Ortho Div., Calif. & N. J.
Chemical Insecticide Corp.
Chipman Chemical Co., Inc.
Corona Chemical Div., Pittsburgh Plate Glass Co.
E. I. du pont de Nemours & Co., Inc., Industrial & Biochemical Corp.
Geigy Agricultural Chemicals, Div. of Geigy Chemical Corp.

GEIGY **METHOXYCHLOR INSECTICIDE**

Multi-purpose insecticide with low toxicity to humans and animals. Controls a wide variety of insect pests attacking vegetable and forage crops. May be applied close to harvest.

SAFE • RESIDUAL • EFFECTIVE

General Chemical Div., Allied Chem. Corp.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Stauffer Chemical Co., N. Y. & Calif.

*METHYL TRITHION

Stauffer Chemical Co., N. Y. & Calif.

NICOTINE

California Chemical Corp., Ortho Div., Calif. & N. J.
Chemical Insecticide Corp.
Florist Products
General Chemical Div., Allied Chem. Corp.
Niagara Chemical Div., Food Machinery & Chemical Corp.
B. G. Pratt Co.
Sherwin-Williams Co.
Stauffer Chemical Co., Calif.

OVEX

California Chemical Corp., Ortho Div., Calif. & N. J.
Chemical Insecticide Corp.
Dow Chemical Co., Agricultural Chemicals Div.
General Chemical Div., Allied Chem. Corp.
Miller Chemical & Fertilizer Corp.
Pittsburgh Plate Glass Co.
Stauffer Chemical Co., N. Y & Calif.

PARATHION

American Cyanamid Co., Agricultural Div.
California Chemical Corp., Ortho Div., Calif. & N. J.
Chemagro Corp.
Chemical Insecticide Corp.
Chipman Chemical Co., Inc.
Corona Chemical Div., Pittsburgh Plate Glass Co.
Florist Products
General Chemical Div., Allied Chem. Corp.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Monsanto Chemical Co.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Olin Mathieson Chemical Corp., Plant Food Div.
Pennsalt Chemicals Corp.
Sherwin-Williams Co.
Stauffer Chemical Co., N. Y. & Calif.
Swift & Co., Agricultural Chemical Div., Ill.
Woolfolk Chemical Works, Ltd.

SEE PAGE 48
FOR ADDRESSES
OF COMPANIES LISTED
IN THIS SECTION

*PERTHANE

California Chemical Corp., Ortho Div., Calif.
Miller Chemical & Fertilizer Corp.
Rohm & Haas Co.

*PHOSDRIN

Chemical Insecticide Corp.
Chipman Chemical Co., Inc.
General Chemical Div., Allied Chem. Corp.
Shell Chemical Co.
Stauffer Chemical Co., N. Y.
Woolfolk Chemical Works, Ltd.

*Company's brand name.

VEGETABLES:

How to use endrin and Phosdrin® Insecticide for season-long control of hard-to-kill insects—without creating residue problems

One endrin application lasts for days, sometimes weeks—controls the toughest insects. When insects attack close to harvest, switch to Phosdrin. It can be applied up to 24 hours from harvest because it works fast, disappears rapidly, leaves no residue.

Here is how to use endrin and Phosdrin for season-long insect control:

TODAY, vegetable growers are faced with a two-part insect control problem: How to get effective, long-lasting control of insects—*and still avoid having excess insecticide residue on harvested crops.*

Endrin, Phosdrin program

Many growers are solving this problem with a simple spray program based on properly timed applications of endrin and Phosdrin. Here is how they do it.

Control early and midseason insects with endrin

To get highly effective and long-lasting control of early and midseason insects, endrin is used.

Endrin controls a wide range of insects. A single application lasts 7 to 10 days or longer. On most vegetables, endrin applications can be made up to 14 days from harvest. On cabbage, broccoli, cauliflower and brussels sprouts, it can be applied up until the time edible parts begin to form, and on lettuce, up to 45 days before harvest. On potatoes, endrin can be applied up to 3 days from harvest.

Switch to Phosdrin for late-season insects

When insects attack close to harvest, Phosdrin is used.

Phosdrin is one of the newest phosphate insecticides. It kills the toughest insects fast, usually within a few minutes of application. Unlike most other insecticides, Phosdrin disappears rapidly after it has done its job, leaves no residue on harvested crops.

On many vegetables Phosdrin can be applied up to 1 day from harvest. See table below for more complete interval data.

Good mixers

Both endrin and Phosdrin are compatible with most other insecticides and fungicides.

Where to get endrin and Phosdrin Insecticide

Endrin and Phosdrin are available from your local insecticide dealer under many well-known brand names. Both come as liquids, dusts and wettable powders. Be sure, always look for the name *endrin* and the name *Phosdrin Insecticide* on the label or in the ingredient statement.

Shell Chemical Company, Agricultural Chemicals Division, 110 West 51st Street, New York 20, New York.

ACCEPTED INTERVALS FOR PHOSDRIN INSECTICIDE

CROP:	BEANS, ONIONS	CARROTS, EGGPLANT, PEPPERS	BROCCOLI CABBAGE & OKRA	BRUSSELS SPROUTS, CAULIFLOWER, COLLARDS, KALE, CELERY, BEETS (INCL. TOPS)	CANTALOUPES, HONEYDEW MELONS, MUSKMELONS, SUMMER SQUASH, WATERMELONS	CUCUMBERS, PEAS, TOMATOES, POTATOES	LETTUCE
Days between last spray and harvest	1	2	1	3	1	1	2

A Bulletin from

Shell Chemical Company

Agricultural Chemicals Division

SOCK'EM with SEVIN®
INSECTICIDE

When insects attack close to picking time, you can use SEVIN to day of harvest without residue becoming a problem on sweet corn, beans, tomatoes and certain other vegetables. Just follow label instructions carefully. When insects attack late in the season—SOCK 'EM with SEVIN!

UNION CARBIDE CHEMICALS COMPANY
Division of Union Carbide Corporation
270 Park Avenue, New York 17, N. Y.

UNION CARBIDE

SEVIN is a registered trade mark.

INSECTICIDES

ROTENONE PRODUCTS

American Agricultural Chemical Co.
Black Leaf Products Co.
California Chemical Corp., Ortho Div., Calif. & N. J.
Chemical Insecticide Corp.
Chipman Chemical Co., Inc.
Corona Chemical Div. Pittsburgh Plate Glass Co.
Florist Products
General Chemical Div., Allied Chem. Corp.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Niagara Chemical Div., Food Machinery & Chemical Corp.
S. B. Penick & Co.
B. G. Pratt Co.
Stauffer Chemical Co., N. Y. & Calif.
Swift & Co., Agricultural Chemical Div.
Woolfolk Chemical Works, Ltd.

*SEVIN

Chemical Insecticide Corp.
Miller Chemical & Fertilizer Corp.
Stauffer Chemical Co., N. Y. & Calif.
Union Carbide Chemicals Co.
Woolfolk Chemical Works, Ltd.

STROBANE

Stauffer Chemical Co., Calif. & N. Y.

*TEDION

General Chemical Div., Allied Chem. Corp.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Stauffer Chemical Corp., N. Y.

*THIODAN

Miller Chemical & Fertilizer Corp.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Woolfolk Chemical Works, Ltd.

*THURICIDE

Stauffer Chemical Co., Calif. & N. Y.

TOXAPHENE

California Chemical Corp., Ortho Div., Calif. & N. J.
Chemical Insecticide Corp.
Chipman Chemical Co., Inc.
Corona Chemical Div., Pittsburgh Plate Glass Co.
General Chemical Div., Allied Chem. Corp.
Hercules Powder Co., Inc.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Olin Mathieson Chemical Corp., Plant Food Div.
Pennsalt Chemicals Corp.
Stauffer Chemical Co., N. Y. & Calif.
Swift & Co., Agricultural Chemical Div., Ill.
Woolfolk Chemical Works, Ltd.

*TRITHION

California Chemical Corp., Ortho Div., Calif.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Stauffer Chemical Co., N. Y. & Calif.

ZINC SULFATE

California Chemical Corp., Ortho Div., Calif. & N. J.
Central Chemical Corp.
Chemical Insecticide Corp.
Corona Chemical Div., Pittsburgh Plate Glass Co.
E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.
General Chemical Div., Allied Chem. Corp.
Harshaw Chemical Co.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Sherwin-Williams Co.
Tennessee Corp.
Woolfolk Chemical Works, Ltd.

FUNGICIDES

AMOBAM

Roberts Chemical Co.

ANTIBIOTICS

ACTIDIONE
Florist Products
Niagara Chemical Div., Food Machinery & Chemical Corp. (Cherry tree use only)
Upjohn Co. (All commercial uses)

COPPER-STREPTOMYCIN-TERRAMYCIN
Chas. Pfizer & Co., Inc.

STREPTOMYCIN
California Chemical Corp., Ortho Div., Calif. & N. J.
Merck & Co., Inc.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Chas. Pfizer & Co., Inc.
Stauffer Chemical Co., N. Y. & Calif.
Woolfolk Chemical Works, Ltd.

STREPTOMYCIN-NITRATE
Olin Mathieson Chemical Corp., Insecticide Products Dept.

STREPTOMYCIN-TERRAMYCIN
Chipman Chemical Co., Inc.
General Chemical Div. Allied Chem. Corp.
Chas. Pfizer & Co., Inc.

CAPTAN

California Chemical Corp., Ortho Div., Calif. & N. J.
Florist Products
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Stauffer Chemical Co., N. Y. & Calif.

CHLORANIL

General Chemical Div., Allied Chemical Corp.
Naugatuck Chemical Div., U. S. Rubber Co.

COPPER COMPOUNDS

California Chemical Corp., Ortho Div., Calif. & N. J.
Chipman Chemical Co., Inc.
Corona Chemical Div., Pittsburgh Plate Glass Co.
E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.
General Chemical Div., Allied Chemical Corp.
Hercules Powder Co., Inc.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Pennsalt Chemicals Corp.
Phelps-Dodge Refining Corp.
B. G. Pratt Co.
Sherwin-Williams Co.
Stauffer Chemical Co., N. Y. & Calif.
Swift & Co., Agricultural Chemical Div., Ill. & Fla.
Tennessee Corp.
Woolfolk Chemical Works, Ltd.

DICHLONE (*PHYGON)

Chipman Chemical Co., Inc.
General Chemical Div., Allied Chemical Corp.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Naugatuck Chemical Div., U. S. Rubber Co.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Stauffer Chemical Co., N. Y. & Calif.

*Company's brand name.

Lowest cost route to DEPENDABLE BLIGHT CONTROL

with AMOBAM*...

the double strength NABAM

AMOBAM (diammonium ethylene bis dithiocarbamate) gives better disease control plus foliar feeding from AMMONIUM SULFATE (formed when AMOBAM is mixed with Zinc Sulfate). Double strength means less material handling.

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For more No. 1 tomatoes...

For more No. 1 potatoes...

For more top-quality vegetables

of all kinds...

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Control major fungus diseases with...

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...THROUGH CHEMISTRY

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SAFE, SURE Triangle Brand Copper Sulfate helps successful growing in two important ways: Used as a dust or spray, it protects fruits and vegetables from many fungus diseases. Mixed with fertilizers, it restores the copper content to soil.

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refining corporation
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FUNGICIDES

DODINE (*CYPREX)

American Cyanamid Co., Agricultural Chemicals Div.
Stauffer Chemical Co., Calif. & N. Y.

*DYRENE

Chemagro Corp.

FERBAM

California Chemical Corp., Ortho Div., Calif. & N. J.
Chemical Insecticide Corp.
Chipman Chemical Co., Inc.
E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.
Florist Products
General Chemical Div., Allied Chemical Corp.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Olin Mathieson Chemical Corp., Plant Food Div.
Pennsalt Chemicals Corp.
Roberts Chemical Co.
Sherwin-Williams Co.
Stauffer Chemical Co., N. Y. & Calif.
Woolfolk Chemical Works, Ltd.

*KARATHANE

Miller Chemical & Fertilizer Corp.
Miller Products Co.
Morton Chemical Co., Agricultural Chemical Div.
Rohm & Haas Co.

MANEB

Chemical Insecticide Corp.
E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Olin Mathieson Chemical Corp., Plant Food Div.
Rohm & Haas Co.
Stauffer Chemical Co., N. Y. & Calif.
Woolfolk Chemical Works, Ltd.

When writing advertisers please mention AMERICAN VEGETABLE GROWER

NABAM

E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.
Roberts Chemical Co.
Rohm & Haas Co.
Woolfolk Chemical Works, Ltd.

*NIACIDE

Niagara Chemical Div., Food Machinery & Chemical Corp.

ORGANO-MERCURI

Central Chemical Corp.
Chemley Products Co.
Chipman Chemical Co., Inc.
Corona Chemical Div., Pittsburgh Plate Glass Co.
General Chemical Div., Allied Chemical Corp.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Morton Chemical Co., Agricultural Chemical Div.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Stauffer Chemical Co., N. Y. & Calif.

PCNB (*TERRACLOR)

California Chemical Corp., Ortho Div., Calif.
Florist Products
Miller Products Co.
Olin-Mathieson Chemical Corp., Insecticide Products Dept.
Stauffer Chemical Co., N. Y. & Calif.
Woolfolk Chemical Works, Ltd.

PHALTAN

California Chemical Corp., Ortho Div., Calif.
Stauffer Chemical Co., Ortho Div., N. Y. & Calif.

SULFURS

California Chemical Corp., Ortho Div., Calif. & N. J.
Chemical Insecticide Corp.
Chipman Chemical Co., Inc.
Dow Chemical Co., Agricultural Chemicals Div.
Florist Products
General Chemical Div., Allied Chem. Corp.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Olin Mathieson Chemical Corp., Plant Food Div.
B. G. Pratt Co.
Sherwin-Williams Co.
Stauffer Chemical Co., N. Y. & Calif.
Woolfolk Chemical Works, Ltd.

THIRAM

E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.
Naugatuck Div., U.S. Rubber
Pennsalt Chemicals Corp.
Roberts Chemical Co.

ZINEB

California Chemical Corp., Ortho Div., Calif. & N. J.
Chemical Insecticide Corp.
E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.
Florist Products
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Olin Mathieson Chemical Corp., Plant Food Div.
Rohm & Haas Co.
Stauffer Chemical Co., N. Y. & Calif.
Woolfolk Chemical Works, Ltd.

ZIRAM

Chemical Insecticide Corp.
Corona Chemical Div., Pittsburgh Plate Glass Co.
E. I. du Pont de Nemours & Co., Industrial & Biochemical Dept.
General Chemical Div., Allied Chem. Corp.
Miller Chemical & Fertilizer Corp.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Pennsalt Chemical Corp.
Sherwin-Williams Co.
Stauffer Chemical Co., N. Y. & Calif.
Woolfolk Chemical Works, Ltd.

YOU'LL FIND
BUYERS GUIDE INDEX, pages 15, 16
PESTICIDE BRAND NAMES, pages 43, 44, 46
WEED CONTROL GUIDE, pages 50, 51

FERTILIZERS

AGRICULTURAL LIME

Benson-Maclean
Central Chemical Corp.
Gibsonburg Lime Prod. Co.
Marble Cliff Quarries Co.
Ohio Lime Co.
Scioto Lime & Stone Co.
United States Gypsum Co.

AMMONIUM NITRATE

Allied Chemical Corp., Nitrogen Div.
American Cynamid Co., Agricultural Div.
California Chemical Corp., Ortho Div., Calif. & N. J.
Cominco Products, Inc.
Harshaw Chemical Co.
Miller Chemical & Fertilizer Corp.

AMMONIUM NITRATE LIMESTONE

Allied Chemical Corp., Nitrogen Div.

AMMONIUM SULFATE

California Chemical Corp., Ortho Div., Calif. & N. J.
Cominco Products, Inc.
E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.
Miller Chemical & Fertilizer Corp.

ANHYDROUS AMMONIA

Allied Chemical Corp., Nitrogen Div.
American Cyanamid Co., Agricultural Div.
California Chemical Corp., Ortho Div., Calif. & N. J.
Cominco Products, Inc.
Dow Chemical Co., Agricultural Chemical Div.
Grand River Chemical Div., Deere & Co.
Insecticide Products Div.
Olin-Mathieson Chemical Corp.
Pittsburgh Plate Glass, Chemical Div.
Shell Chemical Corp.

BORAX

American Potash & Chemical Corp.
Harshaw Chemical Co.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Pacific Coast Borax Co.
Stauffer Chemical Co., N. Y. & Calif.

CALCIUM CYANAMID

American Cyanamid Co., Agricultural Div.
Miller Chemical & Fertilizer Corp.

*Company's brand name.

THE NEWER PESTICIDES

With Some Commonly Known Brand Names

See directory listings for names of additional manufacturers and suppliers of pesticides, herbicides, and soil fumigants

PESTICIDE AND BRAND NAMES	COMPANY
ALDRIN	
Aldrin	Shell Chemical
Amoco Aldrin	American Oil Co.
Chipman Aldrin	Chipman Chemical
Corona Aldrin	Pittsburgh Plate Glass
Drinox	Morton Chemical
Mathieson Aldrin	Olin Mathieson
Miller Aldrin	Miller
Niagara Aldrin	Niagara
Orchard Brand Aldrin	General Chemical
Ortho Aldrin	California Chemical
Penco Aldrin	Pennsalt Chemicals
Security Brand Aldrin	Woolfolk
Stauffer Aldrin	Stauffer
ANTIBIOTICS	
Actidione	
Actispray	Niagara
Actispray	Upjohn
Streptomycin	
Agristrep	Merck
Agristrep	Niagara
Mathieson Phytomycin	Olin Mathieson
Phytomycin	Squibb
Stauffer Streptomycin	Stauffer
Strepspray	United Heckathorn
Streptomycin-Terramycin	
Agri-mycin 100	Chas. Pfizer
Agri-mycin 100	Chipman Chemical
Agri-mycin 100 Antibiotic Dust	Pacific Guano Co. L. H. Butcher Co. Moyer Chemical Co. Sunland Industries, Inc. United Chemical Co.
Copper-Streptomycin-Terramycin	
Agri-mycin 500	Chas. Pfizer
***ARAMITE**	
Aracide	United Heckathorn
Aramite	U.S. Rubber
Chipman Aramite	Chipman Chemical
Corona Aramite	Pittsburgh Plate Glass
Niagaramite	Niagara
Orchard Brand Aramite	General Chemical
Ortho Aramite	California Chemical
Penco Aramite	Pennsalt Chemicals
Stauffer Aramite	Stauffer
BACILLUS THURINGIENSIS	
(Microbial Insecticide)	
Bakthane	Rohm & Haas
Biotryol	Pennsalt Chemicals
Parasporin	Grain Processing Corp.
Thuricide	Stauffer
BHC	
Benzahex	Chipman Chemical
Benzex	Woolfolk
BHC 12 Spray	Niagara
Corona BHC	Pittsburgh Plate Glass
Isotox	California Chemical
Lintox	Stauffer
Mathieson BHC	Olin Mathieson
Miller BHC	Miller
Orchard Brand BHC	General Chemical
Ortho BHC	California Chemical
Penco BHC	Pennsalt Chemicals
Penco Hi Gamma BHC	Pennsalt Chemicals
Stauffer BHC	Stauffer
CAPTAN	
Orthocide	California Chemical
Stauffer Captan	Stauffer
Woolfolk Captan	Woolfolk
CHLORANIL	
Spergon	U.S. Rubber
CHLORBENSIDE	
Mitox	California Chemical
CHLORDANE	
Black Leaf Chlordane	Black Leaf Products
Chipman Chlordane	Chipman Chemical
Chlordane	Velsicol
Chlor Kil	Niagara
Corodane	Pittsburgh Plate Glass
Mathieson Chlordane	Olin Mathieson
Miller Chlordane	Miller
Ortho Chlordane	California Chemical
Ortho-Klor	California Chemical
Penco Chlordane	Pennsalt
Pratts Chlordane	B. G. Pratt
Security Brand Chlordane	Woolfolk
Sherwin-Williams Chlordane	Sherwin-Williams
Stauffer Chlordane	Stauffer
Synklor	U.S. Rubber
***CHLOROBENZILATE**	
Chlorobenzilate	Geigy
DDD (TDE)	
Corona Rothane	Pittsburgh Plate Glass
Mathieson TDE	Olin Mathieson
Niagara DDD	Niagara
Orchard Brand TDE	General Chemical
Ortho TDE	California Chemical
Rhothane	Rohm & Haas
Rhothane	Sherwin-Williams
Security Brand DDD	Woolfolk
Stauffer DDD	Stauffer
DDT	
Amoco DDT	American Oil Co.
Black Leaf DDT	Black Leaf Products
Chipman DDT	Chipman Chemical
Corona 50-50 W	Pittsburgh Plate Glass
DDTol	Sherwin-Williams
Deenate	DuPont
Geigy DDT	Geigy
Genitox	General Chemical
Mathieson DDT	Olin Mathieson
Miller DDT	Miller
Niatox	Niagara
Orchard Brand DDT	General Chemical
Ortho DDT	California Chemical
Penco DDT	Pennsalt Chemicals
Pratts DDT	B. G. Pratt
Security Brand DDT	Woolfolk
Stauffer DDT	Stauffer
DEMETON	
Systox	Chemagro
Systox	Niagara
Systox	Chipman Chemical
Systox	Woolfolk
***DIAZINON**	
Diazinon	Geigy
Woolfolk Diazinon	Woolfolk
***DIBROM**	
Chipman Dibrom	Chipman Chemical
Ortho Dibrom	California Chemical
Stauffer Dibrom	Stauffer
DICHLONE	
Corona Phygon-XL	Pittsburgh Plate Glass
Corona Phygon-Sulfur	Pittsburgh Plate Glass
Kolo 100	Niagara
Orchard Brand Phygon-XL	General Chemical
Phygon-XL	U. S. Rubber
Stauffer Phygon	Stauffer
DIELDRIN	
Amoco Dieldrin	American Oil Co.
Black Leaf Dieldrin	Black Leaf Products
Chipman Dieldrin	Chipman Chemical
Corona Dieldrin	Pittsburgh Plate Glass
Dieldrin	Shell Chemical
Mathieson Dieldrin	Olin Mathieson
Miller Dieldrin	Miller
Niagara Dieldrin	Niagara
Orchard Brand Dieldrin	General Chemical
Ortho Dieldrin	California Chemical
Panoram D-31	Panogen
Penco Dieldrin	Pennsalt Chemicals
Pratts Dieldrin	B. G. Pratt
Security Brand Dieldrin	Woolfolk
Sherwin-Williams Dieldrin	Sherwin-Williams
Stauffer Dieldrin	Stauffer
DINITROS-DORMANT	
Corodinoc	Pittsburgh Plate Glass
Corona Dinitro Powder	Pittsburgh Plate Glass
Dinitro Dry	Niagara
Dinitrol	Sherwin-Williams
DN Drymix No. 1	Dow
DN-289	Dow
Elgetol	Standard Agri. Chem.
Elgetol 30	Standard Agri. Chem.
Elgetol 318	Standard Agri. Chem.
Knoxweed	Stauffer
Nitro Vaporol	California Chemical
Ortazol	Miller
DINITROS-SUMMER	
DN-111	Dow
DISYSTON	
Disyston	Chemagro
DODINE	
Cyprex	American Cyanamid
***DYRENE**	
Dyrene	Chemagro
ENDRIN	
Amoco Endrin	American Oil Co.
Chipman Endrin	Chipman Chemical
Corona Endrin	Pittsburgh Plate Glass
Endrin	Niagara
Endrin	Shell Chemical
Endrin	Sherwin-Williams
Endrin	Velsicol
Mathieson Endrin	Olin Mathieson
Miller Endrin	Miller
Orchard Brand Endrin	General Chemical
Ortho Endrin	California Chemical
Penco Endrin	Pennsalt Chemicals
Security Brand Endrin	Woolfolk
Stauffer Endrin	Stauffer
EPN	
EPN 300	DuPont
Woolfolk EPN	Woolfolk
ETHION	
Miller Ethion	Miller
Niagara Ethion	Niagara
Woolfolk Ethion	Woolfolk
***FENSON**	
Penco Fenson	Pennsalt Chemicals
FERBAM	
Carbamate	Niagara
Chipman Ferbam W-76	Chipman Chemical
Coromate	Pittsburgh Plate Glass
Fermate	DuPont
Karbam Black	Sherwin-Williams
Mathieson Ferbam	Olin Mathieson
Miller Ferbam	Miller
Ortho Ferbam	California Chemical
Orchard Brand Ferbam	General Chemical
Penco Ferbam	Pennsalt Chemicals
Security Brand Ferbam	Woolfolk
Stauffer Ferbam	Stauffer
***GENITE 923**	
Genite 923	General Chemical

SEE PAGE 46 FOR BRAND NAMES OF HERBICIDES

PESTICIDE AND BRAND NAMES	COMPANY
GLYODIN	
Crag Glyodin	Union Carbide Chem.
Glyoxide Dry	Corona
***GUTHION**	
Guthion	Chemagro
Woolfolk Guthion	Woolfolk
HEPTACHLOR	
Amoco Heptachlor	American Oil Co.
Chipman Heptachlor	Chipman Chemical
Drinox H-34	Morton Chemical
Heptachlor	Velsicol
Heptaspray	United Heckathorn
Mathieson Heptachlor	Olin Mathieson
Miller Heptachlor	Miller
Niagara Heptachlor	Niagara
Orchard Brand Heptachlor	General Chemical
Ortho Heptachlor	California Chemical
Penco Heptachlor	Pennsalt
Security Brand Heptachlor	Woolfolk
Stauffer Heptachlor	Stauffer
***KARATHANE**	
Karathane	Rohm & Haas
***KELTHANE**	
Kelthane	Rohm & Haas
Woolfolk Kelthane	Woolfolk
***KEPONE**	
Kepone	General Chemical

*Company's brand name.

BRAND NAMES

(*Continued from page 43*)

PESTICIDE AND BRAND NAMES	COMPANY
LINDANE	
Chipman Lindane	Chipman Chemical
Isotox	California Chemical
Miller Lindane	Miller
Niagara Lindane	Niagara
Orchard Brand Lindane	General Chemical
Penco Lindane	Pennsalt Chemicals
Pratts Lindane Spray	B. G. Pratt
Security Brand Lindane	Woolfolk
Stauffer Lindane	Stauffer
MALATHION	
Amoco Malathion	American Oil Co.
Black Leaf Malathion	Black Leaf Products
Chipman Malathion	Chipman Chemical
Corona Malathion	Pittsburgh Plate Glass
Malaspray	United Heckathorn
Malathion Technical	American Cyanamid
Malathion 50 Spray	Niagara
Mathieson Malathion	Olin Mathieson
Miller Malathion	Miller
Orchard Brand Malathion	General Chemical
Ortho Malathion	California Chemical
Penco Malathion	Pennsalt Chemicals
Pratts Malathion Spray	B. G. Pratt
Security Brand Malathion	Woolfolk
Sherwin-Williams Malathion	Sherwin-Williams
Stauffer Malathion	Stauffer
MANEB	
Dithane M-22	Rohm & Haas
Manzate	DuPont
Woolfolk Maneb	Woolfolk
METHOXYCHLOR	
Amoco Methoxychlor	American Oil Co.
Corona Methoxychlor	Pittsburgh Plate Glass
Geigy Methoxychlor	Geigy
Marlate	DuPont
Methoxcide	Niagara
Miller Methoxychlor	Miller
Orchard Brand Methoxychlor	General Chemical
Ortho Methoxychlor	California Chemical
Stauffer Methoxychlor	Stauffer

BUYER'S GUIDE INDEX appears on pages 15 and 16

NABAM	
Dithane D-14	Rohm & Haas
Nabam	General Chemical
Niagara Nabam Solution	Niagara
Ortho Nabam	California Chemical
Parzate Liquid	DuPont
Stauffer Nabam	Stauffer
***NIACIDE**	
Niacide	Niagara
NICOTINE SULPHATE	
Black Leaf 40	Black Leaf Products
OMPA (Schradan)	
Penco OMPA	Pennsalt Chemicals
ORGANO-MERCURY	
Coromerc	Pittsburgh Plate Glass
Miller Puritized Agricultural Spray	Miller
Miller Puritized Apple Spray	Miller
Orchard Brand Mercury Spray	General Chemical
Orchard Brand Puritized Agricultural Spray	General Chemical
Orchard Brand Quinex	General Chemical
Panogen	Morton Chemical
Phix	Chemley Products
Puratized Agricultural Spray	Niagara
Puratized Apple Spray	Niagara
Stauffer Mer-Cad	Stauffer
Stauffer Mer-Sol	Stauffer
Tag	California Chemical
OVEX	
Corotran	Pittsburgh Plate Glass
Diamond Ovex	Diamond Alkali
Mitran	United Heckathorn
Niagaratran	Niagara
Orchard Brand Ovex	General Chemical
Orthotran	California Chemical
Ovotran	Dow
Stauffer Ovex	Stauffer

*Company's brand name.

PESTICIDES AND BRAND NAMES	COMPANY
PARATHION	
Chemagro Parathion	Chemagro
Chipman Parathion	Chipman Chemical
Corothion	Pittsburgh Plate Glass
Mathieson Parathion	Olin Mathieson
Miller Parathion	Miller
Niran	Monsanto
Orchard Brand Parathion	General Chemical
Ortho Parathion	California Chemical
Orthophos	California Chemical
Panthion	Woolfolk
Parawet	United Heckathorn
Penco Parathion	Pennsalt Chemicals
Phos Kil	Niagara
Security Brand Parathion	Woolfolk
Sherwin-Williams Parathion	Sherwin-Williams
Stauffer Parathion	Stauffer
Thiophos (technical)	American Cyanamid
PCNB	
Mathieson Terraclor	Olin Mathieson
Stauffer Terraclor	Stauffer
***PERTHANE**	
Miller Perthane	Miller
Perthane	Rohm & Haas
Ortho Perthane	California Chemical
PHALTAN	
Phaltan	California Chemical
Phaltan	Niagara
Stauffer Phaltan	Stauffer
PHORATE	
Thimet	American Cyanamid
***PHOSDRIN**	
Chipman Phosdrin	Chipman Chemical
Miller Phosdrin	Miller
Phosdrin	Niagara
Phosdrin Insecticide	Shell Chemical
Orchard Brand Phosdrin	General Chemical
Security Brand Phosdrin	Woolfolk
Stauffer Phosdrin	Stauffer
***PHOSTEX**	
Phostex	Niagara
QUARTERNARY AMMONIUM COMPOUNDS	
Purasan AD 50	Gallowhur
QUINONES	
Kolo 100	Niagara
Phygon XL	General Chemical
Phygon-XL	U.S. Rubber
Spergon	U.S. Rubber
Stauffer Phygon	Stauffer
RONNEL	
Korlan	Dow
***SEVIN**	
Crag Sevin	Union Carbide Chem.
Miller Sevin	Miller
Niagara Sevin	Niagara
Security Brand Sevin	Woolfolk
Stauffer Sevin	Stauffer
STROBANE	
Stauffer Strobane	Stauffer
***TEDION**	
Tedion	Niagara
Stauffer Tedion	Stauffer
Tedion Spray	General Chemical
TEPP	
Corona TEPP	Pittsburgh Plate Glass
Miller Tepp	Miller
Niagara TEPP	Niagara
Orchard Brand TEPP	General Chemical
Stauffer TEPP	Stauffer
Super-Killex	Sherwin-Williams
Vapotone	California Chemical
***THIODAN**	
Miller Thiodan	Miller
Thiodan	Niagara
Woolfolk Thiodan	Woolfolk
THIRAM	
Thiram	U.S. Rubber
Thylate	DuPont
Penco Thiram	Pennsalt Chemicals

See page 46 for Brand Names of Herbicides

PESTICIDES AND BRAND NAMES	COMPANY
TOXAPHENE	
Alltox	California Chemical
Amoco Toxaphene	American Oil Co.
Chipman Toxaphene	Chipman Chemical
Gy-Phene	Geigy
Mathieson Toxaphene	Olin Mathieson
Orchard Brand Toxaphene	General Chemical
Ortho Toxaphene	California Chemical
Penco Toxaphene	Pennsalt Chemicals
Security Brand Toxaphene	Woolfolk
Stauffer Toxaphene	Stauffer
Toxakil	Niagara
***TRITHION**	
Niagara Trithion	Niagara
Stauffer Trithion	Stauffer
UREA	
Aero Urea	American Cyanamid
NuGreen	DuPont
ZINEB	
Black Leaf Sheen	Black Leaf Products
Chipman Zineb	Chipman Chemical
Dithane Z-78	Rohm & Haas
Miller Zineb	Miller Chemical
Ortho Zineb	California Chemical
Parzate	DuPont
Stauffer Zineb	Stauffer
Zineb	General Chemical
Zineb	Niagara
ZIRAM	
Corozate	Pittsburgh Plate Glass
Karbam White	Sherwin-Williams
Orchard Brand Ziram	General Chemical
Ortho Ziram	California Chemical
Penco Ziram	Pennsalt Chemicals
Security Brand Zerlate	Woolfolk
Stauffer Ziram	Stauffer
Z-C Spray	Niagara
Zerlate	DuPont

SOIL FUMIGANTS

SOIL FUMIGANT AND BRAND NAMES	COMPANY
ALLYL ALCOHOL	
Allyl Alcohol	Dow
Allyl Alcohol	Shell Chemical
Bedrench	Niagara
Weed Drench	Panogen
CHLORINATED HYDROCARBONS	
Telone	Dow
CHLOROPICRIN	
Larvacide	Morton Chemical
Picfume	Dow
***DD**	
D-D Soil Fumigant	Shell Chemical
Security Brand DD	Woolfolk
Stauffer DD	Stauffer
Vidden D	Dow
DIBROMO CHLOROPROPANE	
Fumazone	Dow
Nemagon	Shell Chemical
Ortho Nemagon	California Chemical
B. G. Pratt Nemagon	B. G. Pratt
Security Brand Nemagon	Woolwolk
Stauffer Nemagon	Stauffer
EDB	
Bromofume	American Potash
Dowfume W85	Dow
Ortho EDB	California Chemical
Soilfume	Niagara
ETHYLENE DIBROMIDE and MIXED DICHLOROPROPANES	
Dorlone	Dow
Mathieson OMAfume D-EDB	Olin Mathieson
Mathieson OMA-D	Olin Mathieson
METHYL BROMIDE	
Bed Fume	Niagara
Bromex	Morton Chemical
Mathieson Methyl Bromide	Olin Mathieson
MC-2	Dow
***MYLONE**	
Micro-Fume	Miller
Mylone	Union Carbide Chem.
OXYQUINOLINE SULFATE	
Sunox	Midvale
***VAPAM**	
DuPont VPM	DuPont
Stauffer Vapam	Stauffer
***VC-13**	
Penco V-C13	Pennsalt Chemicals
VC-13	Virginia-Carolina

GEIGY—creators of chemicals for modern agriculture

FOR BROAD SPECTRUM INSECT CONTROL ON VEGETABLES

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INSECTICIDES

Aphids
Black bean aphids
Carrot rust flies
Colorado potato beetles
Corn earworms
Diamondback moths
Dipterous leaf miners
Flea beetles
Harlequin cabbage bugs
Imported cabbageworms
Leafhoppers
Mexican bean beetles
Mites
Onion maggots
Onion thrips
Seed corn maggots
Southern potato wireworms
Vinegar flies (Drosophila sp.)

Beets
Broccoli
Cabbage
Cantaloupes
Carrots
Cauliflower
Celery
Collards
Cucumbers
Endive
Kale
Lettuce
Lima beans
Muskmelons
Onions
Parsley
Parsnips
Peppers
Potatoes
Radishes
Snap beans
Spinach
Summer squash
Swiss chard
Tomatoes
Turnips
Turnip tops
Watermelons
Winter squash

Positive control even when problem insects threaten.

Economical because broad spectrum effectiveness permits simplified spray program—reduces number of applications and pesticides needed.

May be applied to within a few days of harvest. One of the safer phosphate insecticides.

Residue tolerance 0.75 ppm

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1961

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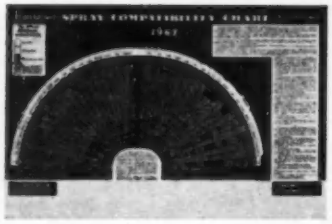

Larger and completely revised for 1961. This chart tells at a glance just what chemicals mix safely.

50c

Don't forget our important Companion Spray Safety Chart.

50c

Order both charts —a $1.00 value— for only 75c. Quantity prices on request.

This offer good only in U. S. A. and Canada. Coin or money order must accompany each order.

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Willoughby, Ohio

Enclosed is money or my check. Send..... compatibility charts and/or .....companion spray safety charts to:

Name.....

Address.....

City.....State.....

BRAND NAMES OF HERBICIDES

See pages 43 and 44 for Brand Names of Pesticides and Soil Fumigants

HERBICIDE AND BRAND NAMES	COMPANY
AMIBEN	
Amiben	Amchem Products
AMITROLE (Amino Triazole)	
Amino Triazole	American Cyanamid
Amitrol-T	Amchem Products
Cytrol	American Cyanamid
Weedazol	Amchem Products
AMITROLE and SIMAZINE	
Amizine	Amchem Products
AMMONIUM SULFAMATE	
Ammate X	DuPont
ATRAZINE	
Atrazine	Geigy
CDAA-T	
Randox-T	Monsanto
CDEC	
Vegadex	Monsanto
CIPC	
Chloro IPC	Pittsburgh Plate Glass
DALAPON	
Dowpon	Dow
DIURON	
Karmex	DuPont
DNBP	
Dow General	Dow
Dow Premerge	Dow
Sinox PE	Stand. Agr. Chem.
ENDOTHAL	
Penco Aquathol	Pennsalt Chemicals
Penco Endothal	Pennsalt Chemicals
EPTC	
Eptam	Stauffer
ERBON	
Novon	Dow
EXD	
Herbisan	Roberts
Sulfasan	Monsanto
***FALONE**	
Falone	Naugatuck Chemical
4-(2.4.-DB)	
Butoxone	Chipman Chemical
FENURON	
Butyrac 118	Amchem Products
Dybar	DuPont
HCA	
General Chemical HCA	General Chemical
MALEIC HYDRAZIDE	
MH-30	General Chemical
MH-30	Naugatuck Chemical
MH-30	Niagara
Penco MH-30	Pennsalt Chemicals
Stauffer MH-30	Stauffer

*Company's brand name.

HERBICIDE AND BRAND NAMES	COMPANY
MONURON (CMU)	
Telvar	DuPont
NEBURON	
Kloben	DuPont
NPA	
Alanap 3	General Chemical
Alanap 3	Naugatuck Chemical
Alanap 3	Niagara
Amoco Alanap	American Oil Co.
Penco Alanap-3	Pennsalt Chemicals
Stauffer NPA	Stauffer
POLYCHLOROBENZOIC ACID	
Zobar	DuPont
SESONE	
Sesone	Amchem Products
SILVEX	
Kuron	Dow
Silvex 4L	Chipman Chemical
Weedone 2,4,5-TP	Amchem Products
SIMAZINE	
Simazine	Geigy
SODIUM ARSENITE	
Atlas "A"	Chipman Chemical
General Chemical Sodium Arsenite	General Chemical
Niagara Sodium Arsenite	Niagara
Penco Penite	Pennsalt Chemicals
Pratt's Sodium Arsenite	B. G. Pratt
Sodium Arsenite	Sherwin-Williams
SODIUM CHLORATE	
Atlacide	Chipman Chemical
Penneo Sodium Chlorate	Pennsalt Chemicals
Stauffer Sodium Chlorate	Stauffer
SODIUM CHLORATE SODIUM METABORATE and MONURON	
Chlorea	Chipman Chemical
SOLAN	
Solan	Niagara
TCA and MONURON	
Urox	General Chemical
TRICHLOROBENZOIC ACID	
Benzac	Amchem Products
Trysben 200	DuPont
2,4-D and 2,4,5-T	See Directory listing for names of companies
PCP	See Directory listing for names of companies
TCA	See Directory listing for names of companies
***URAB**	
Urab	General Chemical

— BE SURE WITH SPRAYS —

- **Follow directions on the label.**
- **Do not apply sooner or later or more often than recommended.**
- **Do not apply to a crop *NOT* listed on label.**
- **Measure dosages accurately.**
- **Keep a written record of dosages used, dates and methods of application.**

FERTILIZERS

CHELATED COMPOUNDS

Crown Zellerbach Corp., Chemical Products Div.
Dow Chemical Co., Agricultural Chemical Div.
Florist Products
Geigy Agricultural Chemicals, Div. of Geigy Chemical Corp.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Refined Products Corp.
Tennessee Corp.
Victor Chemical Works, Div. Stauffer Chemical Co.

COPPER SULFATE

Phelps-Dodge Refining Corp.
Republic Chemical Corp.
Stauffer Chemical Co., N. Y. & Calif.
Tennessee Corp.

*FERRIC SULFATE

Stauffer Chemical Co., N. Y. & Calif.
Tennessee Corp.

LIQUID FERTILIZERS

California Chemical Corp., Ortho Div., Calif. & N. J.
H. D. Campbell Co.
Clover Chemical.
Cominco Products, Inc.
Florist Products
Miller Chemical & Fertilizer Corp.
Swift & Co., Agricultural Chemical Div.
Thompson Chemicals Corp.

MAGNESIUM SULFATE

Central Chemical Corp.
Dow Chemical Co., Agricultural Chemicals Div.
E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.
General Chemical Div., Allied Chem. Corp.
James Good, Inc.
Harshaw Chemical Co.
International Minerals & Chemical Corp.
Miller Chemical & Fertilizer Corp.

MANGANESE SULFATE

E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.
Harshaw Chemical Co.
Merck & Co., Inc.
Miller Chemical & Fertilizer Corp.
Tennessee Corp.

MANGANOUS OXIDE

Tennessee Corp.

NITRATE OF POTASH

Chilean Nitrate Educational Bureau, Inc.
Stauffer Chemical Co., N. Y. & Calif.

NITRATE OF SODA

Allied Chemical Corp., Nitrogen Div.
Chilean Nitrate Educational Bureau, Inc.
Miller Chemical & Fertilizer Corp.
Swift & Co., Agricultural Chemical Div.

NITROGEN SOLUTIONS

Allied Chemical Corp., Nitrogen Div.
American Cyanamid Co., Agricultural Div.
California Chemical Corp., Ortho Div., Calif. & N. J.
H. D. Campbell Co.
Cominco Products, Inc.
Grace Chemical Co.

NUTRITIONAL FOLIAR PLANT FOODS AND STARTER SOLUTIONS

Amchem Products, Inc.
Benson-Maclean
California Chemical Corp., Ortho Div., Calif. & N. J.
H. D. Campbell Co.
Clover Chemical o.
Davison hemical Co., Div. of W. R. Grace & Co.
E. I. du Pont de Nemours & Co.
Florist Products
Marion Chemical Co.
Miller Chemical & Fertilizer Corp.
Monsanto Chemical Co.
"Na-churs" Plant Food Co.
Robert B. Peters Co.
Ra-Pid-Gro Corp.
Swift & Co., Agricultural Chemical Div.
Victor Chemical Works, Div. Stauffer Chemical Co.

NUTRITIONAL TRACE ELEMENTS

California Chemical Corp., Ortho Div., Calif. & N. J.
Ferro Corp., Agricultural Div.
Florist Products
Geigy Agricultural Chemicals Div. of Geigy Chemicals Corp.
Miller Chemical & Fertilizer Corp.

POTASH SALTS

American Potash & Chemical Corp.
American Potash Institute
International Minerals & Chem. Corp.
United States Potash Co.

SOIL CONDITIONERS

Benson-Maclean
California Chemical Corp., Ortho Div., Calif. & N. J.
Florist Products
B. F. Goodrich Chemical Co.
Maegeo Dehydrating Co.
Miller Chemical & Fertilizer Corp.
Monsanto Chemical Co.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Stern's Nurseries

SOIL TESTING OUTFITS

Edwards Laboratory
Florist Products
Kel Instrument Co., Inc.
LaMotte Chemical Products Co.
Stoller Research Co.
Sudbury Laboratory

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SULFATE OF AMMONIA

Allied Chemical Corp., Nitrogen Div.
American Cyanamid Co., Agricultural Div.
Benson-Maclean
California Chemical Corp., Ortho Div., Calif.
Central Chemical Corp.
Cominco Products, Inc.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Shell Chemical Co.
Smith Agricultural Chem. Co.

SULFUR

California Chemical Corp., Ortho Div., Calif. & N. J.
Central Chemical Corp.
Corona Chemical Div., Pittsburgh Plate Glass Co.
E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.
Florist Products
Koppers Co., Inc.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Stauffer Chemical Co., N. Y. & Calif.
Woolfolk Chemical Works, Ltd.

SUPERPHOSPHATE

American Agricultural Chemical Co.
Armour Agricultural Chemical Co.
Cominco Products, Inc.
Davison Chemical Co., Div. of W. R. Grace & Co.
Farmers Fertilizer Co.
International Minerals & Chem. Corp.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Stauffer Chemical Co., Calif.
Summers Fertilizer Co., Inc.
Swift & Co., Agricultural Chemical Div., Ill.
Tennessee Corp.

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True Fish Story

These carrots planted in the same field at the same time. Same seed, with same amount of commercial fertilizer.
Those on left from test rows where King Fish was irrigated at 14 gals./acre. 10 days earlier maturity and 30% increased yield.
Same results most all crops
*** Liquid organic for use with commercials.**
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UREA

Allied Chemical Corp., Nitrogen Div.
American Cyanamid Co., Agricultural Div.
E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.
Grace Chemical Co.
Grand River Chemical Div., Deere & Co.
Miller Chemical & Fertilizer Corp.
Sunolin Chemical Co.

ZINC COMPOUNDS

Tennessee Corp.

GROWTH REGULATORS

COLCHICINE

Benson-Maclean

GIBBERELLIC ACID

Florist Products
Elanco Products Co., Div. Eli Lilly & Co.
Merck & Co., Inc.
Miller Chemical & Fertilizer Corp.
Chas. Pfizer & Co., Inc.

GROWTH RETARDERS

MALEIC HYDRAZIDE
General Chemical Div., Allied Chemical Corp.
Naugatuck Chemical Div. U.S. Rubber Co.
Pennsalt Chemicals Corp.
Stauffer Chemical Co., N.Y. & Calif.

NXY (For Berries)

Science Products Co.

POTATO SPROUT INHIBITOR

Naugatuck Chemical Div., U.S. Rubber Co.
Pennsalt Chemicals Corp.

TOMATO HORMONE SPRAY

Benson Maclean
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Naugatuck Chemical Div., U.S. Rubber Co.
Placo
Science Products Co.

TRANSPLANT HORMONES

Amchem Products, Inc.
Benson-Maclean

2,4-D and 2,4 5-T

See WEED KILLERS

SOIL FUMIGANTS

CALCIUM CYANAMIDE

Merck & Co., Inc.

CHLOROPICRIN

Dow Chemical Co., Agricultural Chemical Div.
Florist Products
Morton Chemical Co., Agricultural Chemical Div.

ETHYLENE DIBROMIDE

Dow Chemical Co., Agricultural Chemical Div.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Union Carbide Chemicals Co.

D-D

Dow Chemical Co., Agricultural Chemical Div.
Miller Chemical & Fertilizer Corp.
Shell Chemical Co.
Stauffer Chemical Co., N.Y. & Calif.

DIBROMO CHLOROPROPANE

California Chemical Corp. Ortho Div., Calif.
Dow Chemical Co., Agricultural Chemical Div.
B. G. Pratt Co.
Shell Chemical Co.
Stauffer Chemical Co., N.Y.
Woolfolk Chemical Works, Ltd.

METHYL BROMIDE

Dow Chemical Co., Agricultural Chemical Div.
Florist Products
Michigan Chemical Co.
Miller Chemical & Fertilizer Corp.
Morton Chemical Co., Agricultural Chemical Div.
Niagara Chemical Div., Food Machinery & Chemical Corp.

*Company's brand name.

SOIL FUMIGANTS

*MYLONE
Miller Chemical & Fertilizer Corp.
Union Carbide Chemicals Co.

OXYQUINOLINE COMPOUND (SUNOX)
Midvale Chemical Co.

*VAPAM
E. I. du Pont de Nemours & Co., Inc.
Stauffer Chemical Co., Calif.

WEED KILLERS

AMINO TRIAZOLE
Amchem Products, Inc.
American Cyanamid Co., Agricultural Div.
Florist Products
Hub States Chemical & Equipment Co.
Miller Products Co.
Olin Mathieson Chemical Corp., Plant Food Div.

AMMONIUM SULFAMATE
E. I. du Pont de Nemours & Co., Inc.
Miller Chemical & Fertilizer Corp.

CDAA (*RANDOX)
Chemical Insecticide Corp.
Miller Chemical & Fertilizer Corp.
Monsanto Chemical Co.

CDEC (*VEGADEX)
Chemical Insecticide Corp.
Miller Chemical & Fertilizer Corp.
Monsanto Chemical Co.

CET (*SIMAZINE)
Geigy Agricultural Chemicals, Div. of Geigy Chemical Corp.
Miller Chemical & Fertilizer Corp.

CHLORO IPC
Amchem Products, Inc.
California Chemical Co., Washington 5, D.C. & Calif.
Chipman Chemical Co.
Florist Products
General Chemical Div., Allied Chemical Corp.
Miller Chemical & Fertilizer Corp.
Olin-Mathieson Chemical Co., Plant Food & Insecticide Div.
Pittsburgh Plate Glass Co., Chemical Div.
Stauffer Chemical Co., Calif. & N. Y.

DALAPON (*DOWPON)
Dow Chemical Co., Agricultural Chemical Div.

DEFOLIANTS
Chipman Chemical Co., Inc.

DINITRO BUTYL PHENOL
California Chemical Corp., Ortho Div., Calif. & N.J.
Chemical Insecticide Corp.
Dow Chemical Co., Agricultural Chemical Div.
General Chemical Div., Allied Chem. Corp.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Standard Agricultural Chemicals, Inc.

DIURON (*KARMEX DW)
E. I. du Pont de Nemours & Co., Inc.

ENDOTHAL
Pennsalt Chemicals Corp.

EPTC (*EPTAM)
Florist Products
Miller Chemical & Fertilizer Corp.
Stauffer Chemical Co., Calif.

ERBON
Dow Chemical Co.

PLEASE REFER TO
BRAND NAMES OF PESTICIDES
PAGES 43, 44 AND 46.

FENURON
E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.

HCA
General Chemical Div., Allied Chemical Corp.

MALEIC HYDRAZIDE
General Chemical Div., Allied Chemical Corp.
Miller Chemical & Fertilizer Corp.

*Company's brand name.

Miller Products Co.
Naugatuck Chemical Div., U.S. Rubber Co.
Pennsalt Chemicals Corp.
Stauffer Chemical Co., N.Y. & Calif.
Thompson Chemicals Corp.

MCP
Chipman Chemical Co., Inc.

MONO-CALCIUM ARSENITE
Corona Chemical Div., Pittsburgh Plate Glass Co.

MONURON
E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.
Miller Chemical & Fertilizer Corp.

NEBURON
E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.

N. I. X.
B. F. Goodrich Chemical Co.

N P A (ALANAP—3)
General Chemical Div., Allied Chemical Corp.
Miller Chemical & Fertilizer Corp.
Naugatuck Chemical Div., U.S. Rubber Co.
Olin Mathieson Chemical Corp., Plant Food Div.
Pennsalt Chemicals Corp.
Stauffer Chemical Co., N.Y. & Calif.

ADDRESSES OF PESTICIDE MANUFACTURERS

Allied Chemical Corp., Nitrogen Div., 75 West St., N. Y., N. Y.
Amchem Products, Inc., Ambler, Pa.
American Agricultural Chemical Co., 100 Church St., N. Y. 7, N. Y.
American Cyanamid Co., 30 Rockefeller Plaza, N. Y. 20, N. Y.
American Potash & Chemical Corp., 3030 W. 6th St., Los Angeles 54, Calif.
American Potash Institute, 1102 16th St., N. W., Washington 6, D. C.
Armour Agricultural Chemical Co., 132 Cone St., Atlanta 1, Ga.
Associated Chemists, Inc., North Collins, N. Y.
W. H. Barber Co., 3650 S. Homan Ave., Chicago 32, Ill.
Benson-Maclean, Bridgeton, Ind.
Black Leaf Co., 6147 N. Broadway, Chicago 40, Ill.
S. N. Bray, 512 W. Washington St., Urbana, Ill.
California Chemical Co., Ortho Div., Lucas & Ortho Way, Richmond, Calif., Haddonfield, N. J.
H. D. Campbell Co., 106 Market St., Rochelle, Ill.
Central Chemical Corp., Hagerstown, Md.
Chatelier Plant Food, Box 119-A, St. Petersburg 4, Fla.
Chemagro Corp., Hawthorne Rd., Kansas City 20, Mo.
Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N. J.
Chemley Products Co., 5744 N. Western Ave., Chicago 45, Ill.
Chipman Chemical Co., Railroad Ave., Bound Brook, N. J.
Clover Chemical Co., Box 10865, Pittsburgh 36, Pa.
Colloidal Products Corp., 100 Gate 5 Rd., Sausalito, Calif.
Cominco Products, Inc., 933 W. 3rd Ave., Spokane 4, Wash.
Corona Chemical Div., Pittsburgh Plate Glass Co., Moorestown, N. J.
Crown Zellerbach Corp., Chemical Products Div. 343 Sansome St., San Francisco, Calif.
Davison Chemical Corp., Div. of W. R. Grace Co., 101 N. Charles St., Baltimore 3, Md.
Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14, Ohio
Diamond Fertilizer Co., 1517 Fifth St., Sandusky, Ohio
Dow Chemical Co., Agricultural Chemical Div., Midland, Mich.
E. I. du Pont de Nemours & Co., Inc., Agricultural Chemicals Dept., Wilmington 98, Del.
Edwards Laboratory, Norwalk, Ohio
Elanco Products Co., Div. Eli Lilly & Co., P. O. Box 1750, Indianapolis 6, Ind.
E-Z Flo Chemical Co., Box 808, Lansing 1, Mich.
Farmers Fertilizer Co., Columbus, Ohio
Federal Chemical Co., Starks Bldg., Louisville, Ky.
Ferro Corp., 4150 E. 56th St., Cleveland 5, Ohio
Florist Products, 1843 Oakton, Des Plaines, Ill.
Geigy Agricultural Chemicals, Div. of Geigy Chemical Corp., P. O. Box 430, Yonkers, N. Y.
General Chemical Div., Allied Chemical Corp., 75 West St., N. Y., N. Y.
G. L. F. Soil Building Service, Terrace Hill, Ithaca, N. Y.
B. F. Goodrich Chemical Co., 2060 E. 9th St., Cleveland 15, Ohio
Grace Chemical Co., 501 Edway Bldg., Memphis 1, Tenn.
Grand River Chemical Div., Deere & Co., Pryor, Okla.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 9, Ohio
Hercules Powder Co., 900 Market St., Wilmington 99, Del.
Hubbard-Hall Chemical Co., P. O. Box 790, Waterbury 20, Conn.
Hub States Chemical & Equipment Co., 1522 No. Windsor St., Indianapolis, Indiana
International Minerals & Chemical Corp., Skokie, Ill.
Kapco Div., Summers Fertilizer Co., Inc., McKeesport, Pa.
Kel Instruments Co., Inc., Box 744, New Brunswick, N. J.
Koppers Co., Inc., Koppers Bldg., Pittsburgh 19, Pa.
LaMotte Chemical Products Co., Chestertown, Md.
Marble Cliff Quarries Co., 2100 Tremont Center, Columbus 21, Ohio
Marion Chemical Co., Marion, Ohio
McCormick and Co., 414 Light St., Baltimore 2, Md.
McLaughlin, Gormley, King Co., 1715 S. E. Fifth St., Minneapolis, Minn.
Merck and Co., Inc., Rahway, N. J.
Midvale Chemical Co., Lodi, N. J.
Miller Chemical & Fertilizer Corp., 3006 W. Cold Sp. Lane, Baltimore 15, Md.
Miller Products Co., 7737 N. E. Killingsworth, Portland 18, Ore.
Monsanto Chemical Co., Lindberg & Olive St. Road, St. Louis 24, Mo.
Morton Chemical Co., Agricultural Chemical Div., 110 N. Wacker Dr., Chicago 6, Ill.
"Na-Churs" Plant Food Co., Marion, Ohio
National Spectographic Sales Corp., 6300 Euclid Ave., Cleveland 3, Ohio
Naugatuck Chemical Division, United States Rubber Co., Naugatuck, Conn.
Niagara Chemical Division, Food Machinery & Chemical Corp., Middleport, N. Y.
The Ohio Lime Company, Main St., Woodville, Ohio
Olin-Mathieson Chemical Co., Plant Food & Irrigation Div., Box 991, Little Rock, Ark. Insecticide Div., Mathieson Bldg., Baltimore 3, Md.
S. B. Penick & Co., 100 Church St., New York 7, N. Y.
Pennsalt Chemicals Corp., 2901 Taylor Way, Tacoma 2, Wash.
Robert B. Peters Co., 323 N. 16th St., Allentown, Pa.
Chas. Pfizer & Co., Inc., 630 Flushing Ave., Brooklyn, N. Y.
Phelps Dodge Refining Corp., 300 Park Ave., New York 17, N. Y.
Pittsburgh Plate Glass Co., Chemical Div., 420 Duquesne Blvd., Pittsburgh, Pa.
B. G. Pratt Company, 204 21st Ave., Paterson, N. J.
Ra-Pid-Gro Corp., Post Office Box 13, Dansville, N. Y.
Reasor-Hill Corp., Box 36 CL, Jacksonville, Ark.
Refined Products Corp., 624 Schuyler Ave., Lyndhurst, N. J.
Roberts Chemical Co., P.O. Box 446, Nitro, W. Va.
Rohm & Haas Co., 222 W. Washington Square, Philadelphia 5, Pa.
Science Products Co., Inc., 1230 E. 63rd St., Chicago, Ill.
Sciota Lime and Stone Co., Post Office Box 338, Delaware, Ohio
Sennewald Drug Co., Inc., 2723 Chauteau Ave., St. Louis 3, Mo.
Shell Chemical Co., Agricultural Chemicals Div., 110 W. 51st, New York 20, N. Y.
Sherwin Williams Co., 101 Prospect Ave., Northwest, Cleveland 1, Ohio
Smith Agricultural Chemical Co., 618 North Champion Ave., Columbus 16, Ohio
Sodus Fruit Exchange, Sodus, Mich.
Standard Agricultural Chemical, Inc., 1301 Adams St., Hoboken, N. J.
Stauffer Chemical Co., 380 Madison Ave., New York 17, N. Y., 636 California St., San Francisco 8, Calif., 2009 Orient Rd., Tampa, Fla., Box 68 No. Portland, Ore., 411 So. 11th St., Omaha, Nebr.
Stern's Nurseries, 404 Williams St., Geneva, N. Y.
Stoller Research Co., Post Office Box 1071, Santa Cruz, Calif.
Sudbury Laboratory, Box 681, S. Dutton Rd., South Sudbury, Mass.
Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa.
Sunolin Chemical Co., 1608 Walnut St., Philadelphia 3, Pa.
Swift & Co., Agricultural Chemical Div., Union Stock Yards, Chicago 9, Ill. Winter Haven, Fla.
The Tanglefoot Company, 314 Straight Ave., S. W., Grand Rapids 4, Mich.
Tennessee Corporation, 619 Grand Building, Atlanta, Ga.
Thompson Chemicals Corp., 2727 W. Hyperion, Los Angeles 27, Calif., and 3028 Locust St., St. Louis 3, Mo.
Thompson-Hayward Chemical Co., 2915 Southwest Blvd., Kansas City 8, Mo.
Union Carbide Chemicals Co., 270 Park Ave., New York 17, N. Y.
U. S. Gypsum Co., 300 West Adams St., Chicago, Ill.
United States Potash Co., Inc., 50 Rockefeller Plaza, New York 20, N. Y.
The Upjohn Company, 301 Henrietta, Kalamazoo 99, Mich.
Velsicol Chemical Co., 330 E. Grand Ave., Chicago, Ill.
Victor Chemical Works, 155 N. Wacker Drive, Chicago 2, Ill.
Westville Laboratories Stepney, Conn.
Wilson & Toomer Fertilizer Company, Jacksonville, Fla.
Woolfolk Chemical Works Ltd., Ft. Valley, Ga.

PCP (PENTACHLOROPHENOL)

Chemical Insecticide Corp.
Dow Chemical Co., Agricultural Chemical Div.
General Chemical Div., Allied Chemical Corp.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Monsanto Chemical Co.
Pennsalt Chemicals Corp.
Stauffer Chemical Co. N.Y. & Calif.
Thompson Chemicals Corp.

SESONE

Miller Chemical & Fertilizer Corp.
Miller Products Co.
Union Carbide Chemicals Co.

SILVEX

Amchem Products, Inc.
Chemical Insecticide Corp.
Chipman Chemical Co., Inc.
Dow Chemical Co.

SODIUM ARSENITE

Chemical Insecticide Corp.
Chipman Chemical Co., Inc.
General Chemical Div., Allied Chemical Corp.
Niagara Chemical Div., Food Machinery & Chemical Corp.
Pennsalt Chemicals Corp.
B. G. Pratt Co.

SODIUM SALT OF DINITRO-ORTHO-CRESOL

California Chemical Corp., Ortho Div. Calif., & N.J.
Chemical Insecticide Corp.
Miller Products Co.
Sherwin-Williams Co.
Standard Agricultural Chemicals, Inc.
Stauffer Chemical Co., Calif.

SUBSTITUTED UREA HERBICIDES

E. I. du Pont de Nemours & Co., Inc., Industrial & Biochemical Dept.

T C A

California Chemical Corp., Ortho Div., Calif. & N.J.
Chemical Insecticide Corp.
Dow Chemical Co., Agricultural Chemical Div.,
General Chemical Div., Allied Chem. Corp.
Miller Chemical & Fertilizer Corp.
Standard Agricultural Chemicals, Inc.
Stauffer Chemical Co., Nebr. & Ore.

TRICHLOROBENZOIC ACID

E. I. du Pont de Nemours & Co., Industrial & Biochemical Dept.

2,4-D and 2,4,5-T

Amchem Products, Inc.
Black Leaf Products Co.
California Chemical Corp., Ortho Div., Calif. & N.J.
Chemagro Corp.
Chemical Insecticide Corp.
Chipman Chemical Co., Inc.
Diamond Alkali Co.
Dow Chemical Co., Apricultural Chemical Div.
Florist Products
Geigy Agricultural Chemicals, Div. of Geigy Chemical Corp.
General Chemical Div., Allied Chem. Corp.
Hub States Chemical & Equipment Corp.
Miller Chemical & Fertilizer Corp.
Miller Products Co.
Monsanto Chemical Co.
Niagara Chemical Div., Food Machinery & Chemical Corp.
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WEED CONTROL GUIDE

We are publishing this guide to chemical control of weeds to acquaint you with the current recommendations for their application on important vegetable crops. *This is not meant to be a guide for use.* Changes are occurring rapidly and some of the recommendations presented in this chart may be obsolete by the time this information reaches you.

Suggestions in this guide are based on data obtained from USDA. Use of these chemicals and methods depends on registration of the products by USDA. Recommendations may vary from state to state and growers should consult their state weed control expert or county agent for local recommendations.

The type of soil and climate will determine the use of the herbicide. For example, under arid conditions in the West herbicides are not effective unless incorporated into the soil.

DO NOT use a chemical on a food crop for which the compound is not registered. DO NOT graze treated areas and DO NOT use treated foliage for feed or forage. DO NOT use any herbicide unless the label states that the chemical may be used on the specific crop to be sprayed.

CROP	CHEMICAL	RATE PER ACRE	TIME OF APPLICATION	WEEDS CONTROLLED	REMARKS
ASPARAGUS (Seedbeds)	monuron light aromatic oil	1-1½ lbs. or light aromatic oil at 80 gals.	Pre-emergence	Most annual broadleaved and weed grasses.	Higher rates of application may cause injury.
ASPARAGUS (Established beds)	2,4-D salt form	1½-2 lbs.	4 weeks or less before spears emerge	Annual weeds	Beds are commonly disked to loosen soil, destroy weeds, and remove old ferns.
	monuron on soils high in organic matter	1-2 lbs. 2-4 lbs.	Pre-emergence		
	sesone	3-5.5 lbs.			
	NPA sodium salt	4-8 lbs. in 10-40 gals. water	After disking and before spears emerge		
	monuron on soils high in organic matter	1-1½ lbs. 2-4 lbs.	After cutting season	Annual broadleaved and weed grasses	
	dalapon	5-10 lbs.		Perennial weed grasses	Apply as spot spray.
BEANS Dry Lima Pole Snap	DNBP amine salt	4-8 lbs.	Pre-emergence	Most broadleaved and annual grasses	
	EPTC	3-4 lbs.			EPTC is very toxic to limas; do not apply.
	CDEC or CIPC	4-6 lbs. in 20-40 gals. water			If no rainfall soon after application, apply a minimum ½ inch by sprinkler irrigation.
	DNBP amine salt at (mixed with) CDEC, CIPC, or EPTC at	4 lbs. 3-4 lbs. in 20 gals. water		Smartweed annual grasses lambsquarter ragweed.	EPTC is very toxic to limas; do not apply.
	DNBP amine salt	3-4 lbs. in 20-40 gals. water	At emergence	Most broadleaved and annual grasses	Apply when beans are not beyond crook stage
CANTALOUPE	NPA sodium salt on light sandy soil on loam soils on clay and muck soils	2-3 lbs. 3-4 lbs. 4-6 lbs. Mix each in 10-40 gals. of water	Pre-emergence	Most annuals	Will control weeds 4 to 6 weeks.
	CDEC	3-4 lbs.			Use lower rate on sandy soils and reduce rate when daily temperatures average less than 60°F. If no rainfall soon after application, apply a minimum of ½ inch by sprinkler irrigation.
	NPA sodium salt	2-4 lbs. in 20-40 gals. of water	Post-emergence		Apply 4 to 6 weeks after emergence to extend pre-emergence treatment. Use only as emergency measure.
CARROTS Dill Parsley Parsnips	Stoddard Solvent	40-100 gals.	Pre-emergence to crop; post-emergence to weeds	Many annual broadleaved weeds and weed grasses	Does not control ragweed, galinsoga.
	Stoddard Solvent (on muck and upland soils)	80-100 gal.	Post-emergence to crop and weeds	Small annual weeds	Apply when weeds 1 to 3 inches tall and not later than 6 weeks before harvest. Most effective if applied when air movement is downward, relative humidity high.
CELERY	Stoddard Solvent	40-100 gal.	Pre-emergence to crop; post-emergence to weeds	Many annual broadleaved and weed grasses	Does not control ragweed, galinsoga.
	Stoddard Solvent	80-100 gal.	Post-emergence to crop and weeds	Small annual weeds	Apply to celery only when in seedbeds.
COLE CROPS Broccoli Brussels Sprouts Cabbage Cauliflower	CDEC	3-4 lbs. in 40 gals. water	Pre-emergence (on direct-seeded crops)	Annual grasses and many broadleaved	Lower rates are used when daily temperatures average less than 60° F. If no rainfall soon after application, apply a minimum of ½ inch by sprinkler irrigation.
CUCUMBERS	NPA sodium salt on light sandy soils on loam soils on clay and muck soils	2-3 lbs. 3-4 lbs. 4-6 lbs. Mix each in 10-40 gals. water	Pre-emergence	Most annuals	Will control weeds for 4 to 6 weeks.
	NPA sodium salt	2-4 lbs. in 20-40 gals. water	Post-emergence	Most annuals	Apply 4 to 6 weeks after emergence to extend pre-emergence treatment. Use only as emergency measure.
GREENS Collards Hanover Salad Greens Kale Mustard Greens Spinach Turnip Greens	CDEC	3-4 lbs. in 40 gals. water	Pre-emergence (on direct-seeded crops)	Annual grasses and many broadleaved	Lower rates are used when daily temperatures average less than 60° F. If no rainfall soon after application apply a minimum of ½-inch by sprinkler irrigation. Under Florida conditions mustard greens, spinach, and turnip greens can be severely injured by CDCE.
LETTUCE	CDEC	4 lbs.	Pre-emergence	Purslane (in head lettuce)	If no rainfall soon after application apply a minimum of ½-inch by sprinkler irrigation.
	CIPC	1-3 lbs. in 10-40 gals. water		Annual weeds	

CROP	CHEMICAL	RATE PER ACRE	TIME OF APPLICATION	WEEDS CONTROLLED	REMARKS
ONIONS[2]	CIPC	2-8 lbs.	Pre-emergence	Annual weeds and most broadleaved	Apply when weeds in seedling stage but before onions emerge. Combinations of CIPC and light aromatic oils will control smartweed and purslane.
	sulfuric acid	3-5% solution in 100 gals. water			
	light aromatic oil emulsion	40-80 gals.			
	monuron	1-1.6 lbs.		Annual weeds	Apply immediately after mother bulbs are planted in spring or before new growth begins from overwintered bulbs.
	CIPC	6-8 lbs.			
	sulfuric acid	2-3% solution in 100 gals. water	Post-emergence	Most annual weeds	Apply when first true leaf is 2-3 inches long (loop stage).
	KOCN	10-16 lbs. in 50-100 gals. water			
	CIPC	2-8 lbs. in 20-40 gals. water			Apply when onions are in 5th leaf or early bolting stage.
	sesone	2-3.6 lbs. in 20-40 gals. water			Avoid spraying edible portions of plant or spraying within 6 inches of main stem of plants.
	KOCN[3]	16-20 lbs. in 20-40 gals. water			
	monuron	1-2 lbs. in 20-40 gals. water			
	sulfuric acid[3]	3-4% solution in 100 gals. water			Sulfuric acid should be applied so as to miss plant except at base.
PEAS	IPC (for inter-mountain region)	3-6 lbs. in 10-40 gals. water	Pre-planting	Wild oats other grasses	Apply and thoroughly disk into soil 2-4 weeks before planting.
	DNBP amine salt (in northeastern states)	4-6 lbs. in 10-20 gals. water (Certain soils and climate may require a higher rate but not to exceed 9 lbs).	Pre-emergence	Annual weeds	Apply lower rates if temperature is over 70° F. Use higher rate if lower than 70° F. Avoid application if temperature is 85° F. or higher.
	DNBP amine salt	1 ½-2 ½ lbs. in 20-40 gals. water	Post-emergence	Most broadleaved annual	Apply when peas are 3 to 8 inches tall.
	amine or sodium salt of MCPA (in north central states)	½-1/3 lb. in 5-20 gals. water		Annual broadleaved; Canadian thistle and other perennials	
POTATOES	EPTC	4-6 lbs. in 20-40 gals. water	Pre-planting	Nutgrass annual broadleaved	Incorporate immediately after application by disking or suitable cultivation. Granular formulations also effective.
	dalapon	7.4 lbs. in 20-40 gals. water		Quackgrass	
	DNBP amine salt	3-4 ½ lbs. in 20-40 gals. of water	Pre-emergence	Germinating annual broadleaved and weed grasses	
	sesone	3-4 lbs. in 20-40 gals. water			
	dalapon	3 lbs. in 20-40 gals. water		Annual grasses	Apply just before potatoes emerge.
	dalapon	7.4 lbs. in 20-40 gals. water		Quackgrass	Apply after grass emerges but before potatoes emerge.
	sesone	3-4 lbs. in 20-40 gals. water	Post-emergence	Germinating annual grasses, lambsquarter pigweed	Apply immediately after clean cultivation at lay-by.
	dalapon	3.7 lbs. in 20-40 gals. water	Spot spray	Growing quackgrass	Spot spray before potatoes emerge. Do not use on White Rose or red-skinned varieties.
SWEET CORN[4]	atrazine	2 lbs. (2 ½ lbs. WP) in 50 gals. water	Pre-emergence	All common weeds	If only broadleaved weeds involved reduce rate to ½ lb. (2/3 lb. WP).
	atrazine	4 lbs. (5 lbs. WP) in 50 gals. water		Quackgrass	Rate can be reduced to 2 lbs. if applied before weeds get well established in spring and if several thorough cultivations can be made following treatment.
	low-volatile esters of 2,4-D	½-1 lb. in 20-40 gals. water		Annual broadleaved and weed grasses	Effective 4 to 6 weeks after treatment.
	amine salt of 2,4-D	1-1 ½ lbs. in 20-40 gals. water			
	DNBP amine salt	4-8 lbs. in 20-40 gals. water			
	amine salt of 2,4-D	¼-½ lb. in 5-20 gals. water	Post-emergence	Sensitive broadleaved	Apply when weeds are small and while corn is 4 to 12 inches tall. Use drop nozzles. Some varieties are sensitive to 2,4-D applied post-emergence.
	low-volatile ester of 2,4-D	¼-½ lb. in 5-20 gals. water			
	DNBP amine salt	1-2 lbs.			Apply when corn is in spike stage to 2-leaf stage.
SWEETPOTATOES[5]	NPA imide	2-3 lbs. (in granular form)	Transplanting	Annual grasses and important broadleaved	Apply after setting plants. Use lower rate on sandy soil.
	NPA imide	2-3 lbs. in 40 gals. water	After last cultivation	Annual grasses and important broadleaved	Use lower rate on sandy soil.
	CIPC	2-3 lbs. in 40 gals. water			
WATERMELONS	NPA sodium salt on light sandy soil on loam soils on clay and muck soils	2-3 lbs. 3-4 lbs. 4-6 lbs. Mix each in 10-40 gals. water	Pre-emergence	Most annuals	Will control weeds 4 to 6 weeks.
	NPA sodium salt	2-4 lbs. in 20-40 gals. water	Post-emergence		Apply 4 to 6 weeks after emergence to extend pre-emergence treatment. Use only as emergency measure.

[1]Use highest rate on muck soils and heavy clay soils under arid conditions; use lower rate on light sandy soils under humid conditions. 2,4-D and monuron should not be applied more than once each season. Herbicide mixtures are often required for satisfactory weed control if weed population contains both grasses and broadleaved weeds.

[2]Chemical and rate of application to use will be determined by weeds present, rainfall pattern (summer or winter), soil type, and stage of growth of onions and weeds; for example, only monuron or sesone are effective in seed onions in western low-summer rainfall areas.

[3]Applications of KOCN and sulfuric acid should be delayed until seedling weeds emerge following the last cultivation.

[4]Pre-emergence applications of 2,4-D may result in some injury if applied to shallow-planted stands (¼ to ½ inch). Post-emergence applications of 2,4-D should not be made after corn is 12 inches tall, and drop nozzles should be used whenever practicable. Certain sweet corn varieties are not tolerant of 2,4-D. Small-scale trials on local varieties should precede any large-area application.

[5]Apply treatments only when soil is moist enough for rapid weed seed germination.

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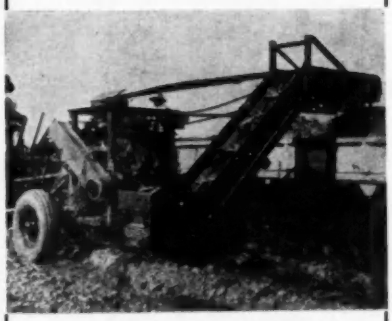

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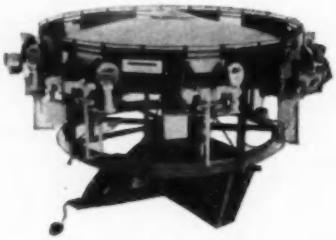

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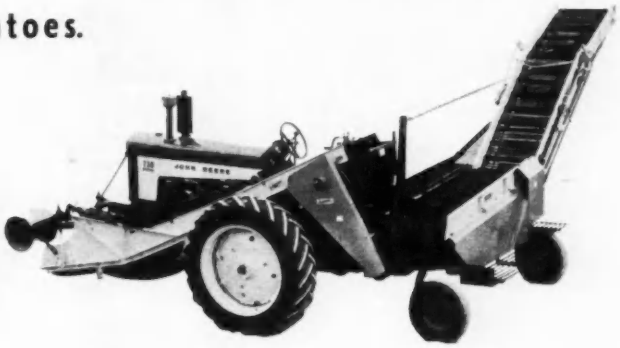

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WEED CONTROL GUIDE ON .....Pages 50-51

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If you want maximum efficiency in your packing line, check these advantages of the FMC return flow packing belt and bagging stands: the return flow packing belt provides more room for workers through a new streamlined design; its special rubber belts don't require frequent adjustment; a unique FMC "S" wrap drive maintains positive belt drive under the greatest loads; enclosed gear drives and self-aligning bearings provide maximum safety and minimum maintenance. With the FMC bagging stands built right in, you'll find you can pack more, pack faster, and pack with a minimum of damage to your produce. FMC bagging stands let you bag accurately, gently and quickly, right off the packing belt, in a minimum of space. Both the return flow packing belt and the bagging stands are adjustable to individual house requirements, and will fit right into any operation. Add speed and efficiency to your packing line, write soon for descriptive literature on all FMC produce handling equipment. Pack at a greater profit—pack with FMC.

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Producer's Exchange, Inc., 20 So. Huron St., Toledo 4, Ohio
Trescott Co., Fairport, N. Y.

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Ernst Bros., Inc., Bakersfield, Calif.
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Hampshire Implement Co., Hatfield, Mass.
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Michigan Orchard Supply Co., South Haven, Mich.
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Yale & Towne Mfg. Co., Yale Materials Handling Div., 11,000 Roosevelt Blvd., Philadelphia 5, Pa.

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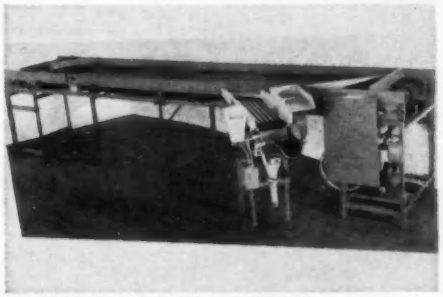

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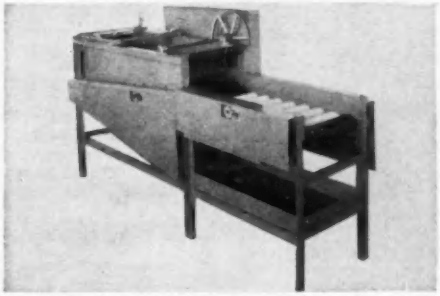

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Eliminators
Packing Tables
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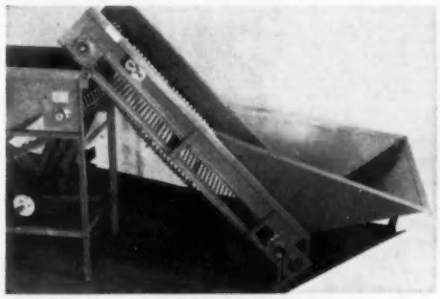
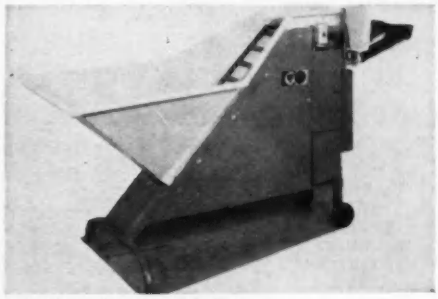


ELEVATOR—Potatoes & Onions



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Lockwood Grader Corp., Gering, Nebr.
Tew Mfg. Corp. (Market Maker and Friend), Fairport, N. Y.
Trescott Co., Fairport, N. Y.
Tri-Pak Machinery Service, Inc., Harlingen, Texas
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Lockwood Graders, Inc., Gering, Nebr.
Tew Mfg. Corp. (Market Maker and Friend), Fairport, N. Y.
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WASA Potato Harvester Co., Mars Hill, Me.

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Howe Scale Co., Rutland, Vt.
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Toledo Scale Co., Telegraph Road, Toledo 1, Ohio
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Markwell Mfg. Co., Inc., 200 Hudson St., N. Y., N. Y.
Producer's Exchange, Inc., 20 S. Huron St., Toledo 4, Ohio
Republic Steel Corp., Republic Bldg., Cleveland, Ohio
Saranac Machine Co., Benton Harbor, Mich.
Trescott Co., Fairport, N. Y.

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The Colorado Fuel & Iron Corp., P. O. Box 1920, Denver, Colo.
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Florida Div., Food Machinery & Chemical Corp., Lakeland, Fla.
Lobee Pump & Machinery Co., Gasport, N. Y.
Lockwood Graders, Inc., Gering, Nebr.
Tew Mfg. Corp. (Market Maker and Friend), Fairport, N. Y.
Trescott Co., Fairport, N. Y.
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Lockwood Graders, Gering, Nebr.
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Tew Mfg. Corp. (Market Maker and Friend), Fairport, N. Y.
Trescott Co., Fairport, N.Y.
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Lockwood Graders, Gering, Nebr.
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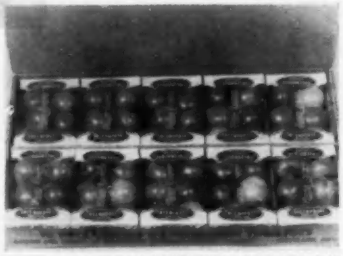

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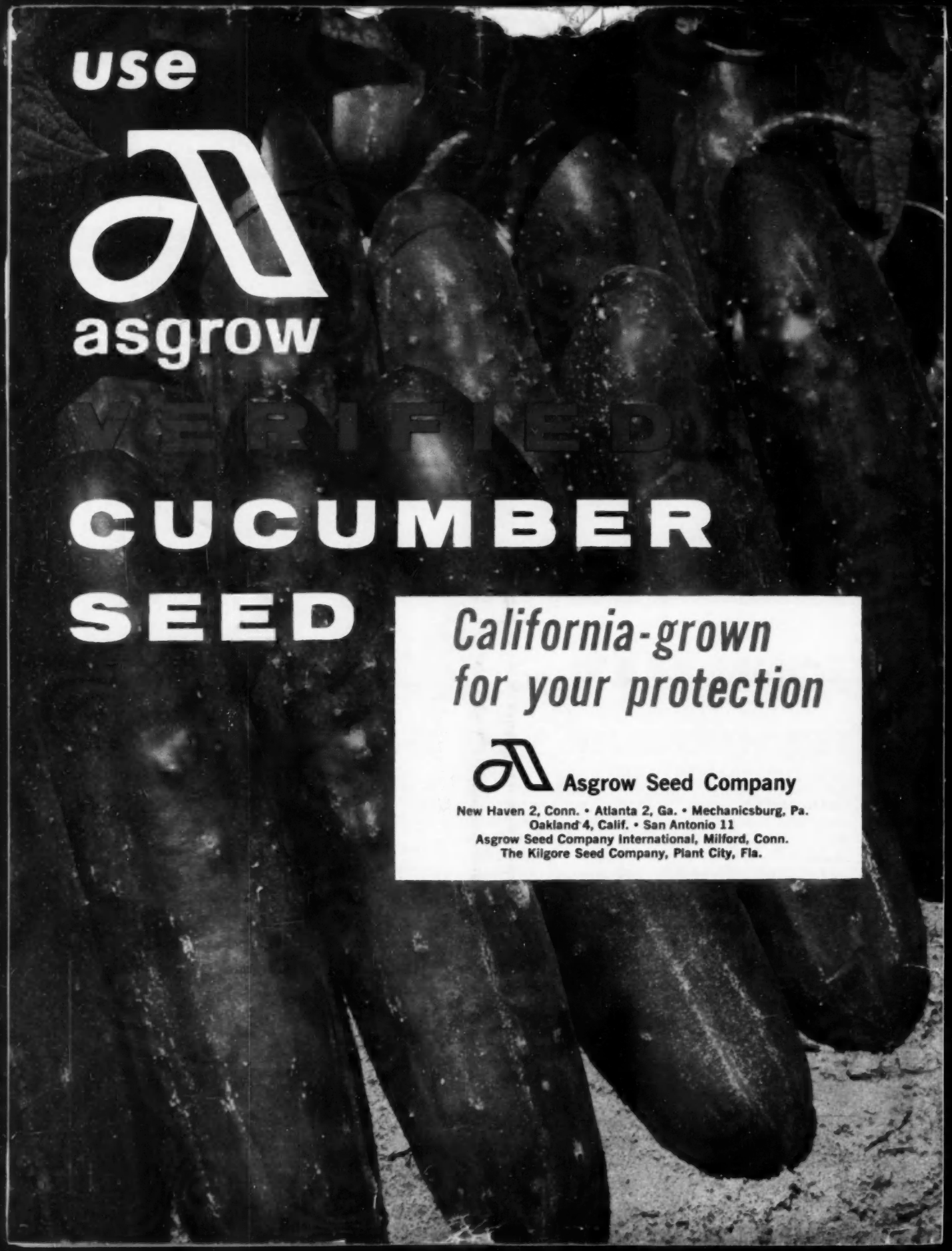
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